CALSS B

NOTES

MYSORE GOVERNMENT SECRETARIAT

File No. PWD 10

Department of P.W.D

Section General Irrigation &

Subject: Bangalore water Supply — Agreement —

References:

Date	To whom sent	Notes and instructions
		FOR/NOT FOR NOTE BOOK 28/6/61 Dy Secretary to Govt.
		A R S Alya 3/4/61
		2-11-38
		31-7-61

91-52-1

CM-91

8324
2 FEB 1953
MUNICIPAL BRANCH

Supdt

The file relating to the Same water supply Scheme to Bangalore is a costly affair 36.5 lakhs estimate

3/1

1) The P.W. Secty may kindly be requested to make the said file available to this question is being dealt with in Secty.

Mr 5/1

3) The question is being dealt with in the P.W. Branch.

4) For favour of information with reference to Para 1

S.T. 5.1.53

A.L.S. P.W.D.

16
6/1

5) The file referred to is placed below for reference and return

4/1

Supdt. M.L. Br. for info and necessary action

P.W. SEC. No. 9 Date 7.1.

6) These papers put up by the PWD with p
Long Range water Supply to Bangalore are disc
May may The final report of the
Ad Hoc committee for Long Range water s
to Bangalore was sent to Secy PWD in
LLH 5 GCS 60 dated 26.7.61. So
papers obtained from PWD may be retu
to them for taking such action as
deem fit. (Ref Para 5)

PWD) 27/7

K. KHADER MOHIUDDIN
Under Secy., P.L.M. Dept.

MYSORE GOVERNMENT SECRETARIAT
No 5301
27 JUL 1961
P.W. LABOUR & MI. AUM. DEPTT. (GENERAL)

GOVERNMENT
No OD 32557
28 JUL 1961
PUBLIC WORKS & ELEC. DEPTT.

27/7/61

27/7

The report of the Adhoc Comm
received from the PWD Dep
in their No LLH 5 GCS 60
26.7.61 is being dealt
separately. Hers file Con
Old papers connected with
Water Supply and may b
Recorded under Class I

Gr V
28/7/61

MYSORE GOVT. SECRETARIAT
No 6476
28 JUL 1961
P.W.D. (GENERAL IRRIGATION)

31/7/61

31/7

31/7/61

Serial No.

2

Draft letter put up as instructed by the Second Member.

The figures need verification. A note showing how the present cost of water is arrived at may be prepared & appended if it is considered desirable.

(See P.W.D.)

C.
3/11/38

The figures are verified.

K

The Calculation sheet to show the present cost of water is arrived at, may be furnished to the Residency later on if should ask for it. The revised charges may kindly be approved.

R

Dewan.
II Member.

13/12/38

C.
14/

A clean draft as revised is submitted. In the G.O's of 1930 & Aug the idea is that the Bangalore City Municipality should be charged at the normal rate of Rs. per 1000 gallons & that the cost of the ex

Bangalore Water Supply Agreement

File No. of 193 . | General and Revenue Secretariat

quantity of water should be treated as a subvention to the Municipality. In the G.O of Oct 1933, the quantity of supply allowed was further raised to 3 million gallons. It is presumed that under this G.O also the idea is to treat the cost of the extra water as a subvention. The argument in the draft letter to the Residency proceeds on this presumption, since all the three G.O's have to be read together.

2nd Member) G. 21/12/38

F.C. 22.12

Dewan) G 22/12

M.J. 22-12-38

Dewan

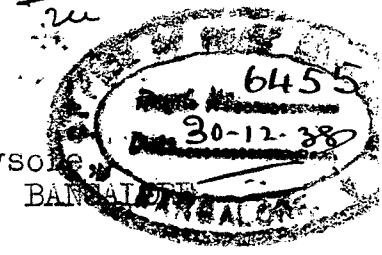
(Signed) G 23/12/38

P. W. Scott)

MYSORE PUBLIC WORKS DEPARTMENT.

OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,

Dated Bangalore, 22nd December *193*8.



To

The Chief Engineer of Mysore,
BANGALORE.

Sir,

In continuation of this office letter No.C.B.581 dated 29th October 1938, I have the honour to submit herewith, a revised Data Sheet showing details for working out the cost of water per 1,000 gallons at Combined Jewell Filters.

The statement sent with this office letter referred to above was worked, taking into account only the quantity of water pumped from Chamarajsag and the maintenance charges etc., relating to - Thippagondanhalli alone. The pumpage from Hessar- ghatta being small ~~however small~~ as also the maintenance cost the stand-bye at Soldevanhalli ~~should have been a~~ taken into accounts for calculating the cost. Besides the above, item No.6 "Loss in transit at 1(of the statement referred to ~~lead~~ has led to some confusi(These considerations have necessitated the prepar tion of a fresh data sheet based upon the actual quantity of water received both from Chamarajsaga and from Hessarghatta and the actual cost of main nance of Thippagondanhalli, Soldevanhalli and - Combined Jewell Filters and the same is now sub- mitted for kind information.

As regards the provision made towards Depr ciation charges, I submit to invite kind referenc

to this office No. 563 dated 6/1/39

I have the honour to be,
S i r,
Your most obedient servant,

H Gans
23.12.38

Executive Engineer,
WATER SUPPLY DIVISION.

Encl 1 statt mt

23/12

Trg.
Steh
25/12/38

Submitted.
The statistics asked for by the Range Officer Accts Officer, State Circle may be furnished to the Residency, if further calls for

Yes. Record for the
Steh 29/12/38

19-1-39 19/1/39 67/44

Final working statement to be furnished to the Resy. Engr.

P.W.DEPARTMENT. WATER SUPPLY D

Details of working out the cost of water per 1,000 gallons at the Combined Jewell Filters, Bangalore.

Quantity of water received and distributed at Combined Jewell Filt
2,032,000,000 Gallons.

Power charges. Rs.3,61,000/-

New.	3,24,000
Combined Jewell Filters.	11,000
Soldevanhalli.	26,000
	3,61,000

$$\frac{,000 \times 16 \times 1,000}{20,32,000,000}$$

2. Maintenance Charges-

	Consumable stores.	Re-pairs.	Tools & Plant.
New.	30,000	20,000	1
Combined Jewell Filters.	3,000	7,000	-
Soldevanhalli.	-	4,000	-
	33,000	31,000	1,000

Rs. 65,000/- = $\frac{65,000 \times 16 \times 1,000}{20,32,000,000}$

3. Establishment.

	Regular.	Ty.Establish-ment.	T.A.	Contingent.
New.	23,000	16,000	1,000	
Combined Jewell Filters.	1,300	1,700		
Soldevanhalli.	5,500	3,500		
	29,800	21,200	1,000	
	30,000	21,000	1,000	= 52,000/-

$$= \frac{52,000 \times 16 \times 1,000}{20,32,000,000}$$

rest on Capital of Rs.68,00,000 at 5½% = $\frac{68,00,000 \times 16 \times 11 \times 1}{20,32,000,000 \times 100 \times 2}$

ciation charges on Rs.1,07,000/- = $\frac{1,07,000 \times 16 \times 1,000}{20,32,000,000}$

85/.

MYSORE PUBLIC WORKS DEPARTMENT.

OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,

No. C.A.2
Enc. 1 Statement

ated Bangalore, 2nd December 193 8
10th December 38

5876

To

The Chief Engineer of Mysore,
Bangalore.

Sir,

In continuation of this office No.531 dated 29th November 1938, and with reference to para 2 of your letter No.4310 dated 8th November 1938, I have the honour to submit herewith a statement showing the details of Depreciation charges working up to Rs.1,07,051/- for favour of information.

The budget provision on this account for the year 1937-38 is Rs.1,05,000/- and that for the current is also Rs.1,05,000/-.

I have the honour to be,
S i r,
Your most obedient servant,

10.12.38

Executive Engineer,
WATER SUPPLY DIVISION.

P.W.DEPARTMENT. WATER SUPPLY DIVISION.

Depreciation charges calculated on the outlay of Chamarajsagar and Water Works, for the year ending 30th June 1938.

(The percentage of Depreciation adopted is as per Chief Engineer's No.3195 6th October 1936 to the address of the Comptroller of Mysore.)

Sl:No.	Name of Work.	Outlay to end of 30th June 38.	Percentage of Depreciation.	Amo
	- 1 DAM & ALLIED WORKS -			
1.	Clearing site. ...	3,248/-		
2.	Excavation for foundation.	1,56,562/-		
3.	Washing foundations with cement grout and choking springs. ...	3,525/-		
4.	Baling water and shoring sides including disposal of floods. ...	69,372/-		
5.	Cement concrete for levelling foundations.	29,620/-		
6.	Rubble masonry in surki mortar.	15,08,608/-		
7.	Pointing front face of dam with cement mortar. ...	8,174/-		
8.	Pointing rear face of dam with surki mortar. ...	1,781/-		
9.	Filling the front of excavation with puddle. ...	2,280/-		
10.	Experimental fitting of Ransomes and Rapier Gates. ...	833/-		
11.	Strengthening the river bank in front of pump house. ...	7,105/-		
12.	Transporting automatic gates from Hessarghatta. ...	1,075/-		
13.	Experimental Syphon Work. ...	1,299/-		
14.	Constructing Valve Tower. ...	75,608/-		
15.	Opening service road to Dam site.	4,135/-		
16.	Medicine and Sanitation. ...	20,744/-		
17.	Deviation Road. ...	85,672/-		
18.	Masonry Bridge across Arkavathi.	43,012/-		
	Total.	20,22,653/-		
19.	Constructing Workshop Magazine and Stores.	5,060/-		
20.	Constructing Executive Engineer's Office.	6,814/-		
21.	" " Quarters.	5,962/-		
22.	" Assistant Engineer's Quarters No.1.	4,164/-		
23.	" " No.2.	3,716/-		
24.	" " No.3.	4,004/-		
25.	" Accountants Quarters.	3,059/-		
26.	" Subordinates Quarters No.1.	2,725/-		
27.	" " No.2.	2,577/-		
28.	" " No.3.	2,589/-		
29.	" " No.4.	3,016/-		
30.	" " No.5	2,932/-		
31.	" " No.6	2,602/-		
	Total C.O.	49,220/-		

	Brought forward.	49,220/-
32.	Constructing Subordinates Quarters No.7.	2,657/-
33.	" " 8.	2,851/-
34.	" " small.	2,719/-
35.	" Quarters for additional accounts clerks.	2,717/-
36.	Converting the Old P.W.Sub-Division Offices into quarters.	156/-
37.	Constructing Servants Quarters.	5,139/-
38.	Mortar testing room.	920/-
39.	Water supply connections to Temporary Buildings.	5,483/-
40.	Lighting connections "	3,043/-
41.	Constructing Temporary Sheds.	10,483/-
42.	" Zinc sheet latrine to coolies.	563/-
43.	Annual Maintenance of Temporary Buildings.	1,017/-
44.	Maintenance of water supply to colony.	3,976/-
45.	" Trees, repairs to sheds.	386/-
46.	" Avenue Trees in the colony.	642/-
	TOTAL.	91,972/-
47.	Layout of the colony.	11,897/-
48.	Stringing Primeries and secondaries in the colony.	5,178/-
49.	Light refreshments to Committee & feeding the labourers.	728/-
50.	Purchase of Camera and preparation of album.	988/-
51.	Disposal of debris.	10,562/-
52.	Improvements to B. M. H. Road.	10,613/-
53.	Deviation of -do-	11,317/-
54.	Opening ceremony and inscription stone.	3,854/-
55.	Approach & Draft celaring of waste weir.	19,703/-
56.	Indepenaent Telephone line.	10,001/-
57.	Legal charges.	1,342/-
58.	Protective works of waste weir.	1,292/-
59.	Raising the main dam from 2,565 to 70.	37,695/-
		1,19,170/-

2 Pipe Line.

1.	Materials:-	
	Steel pipes & fittings.	2,95,000/-
	C. I. pipes & fittings.	10,31,471/-
2.	Trenching for laying and jointing.	52,951/-
3.	Laying and jointing of pipes.	1,13,902/-
4.	Service Road along the pipe line.	27,400/-
5.	Conveyance of pipes & specials.	91,039/-
6.	Masonry works in I Section.	27,434/-
7.	Constructing aqueduct across Vrishabavathi.	8,438/-
8.	Constructing five aqueducts crossing halls	9,171/-
9.	" masonry cisterns.	14,517/-
10.	" pillars.	4,787/-
11.	Service Road along the River Vrishabavathi.	247/-
12.	Watchmens sheds.	2,309/-
13.	Constructing concrete supports to rising main.	588/-
14.	" Herohalli tank weir.	358/-
	" Boulder crossing 6 & 7/15.	1,495/-
	" a grider bridgeat 1 & 2/108 of B. H. Section.	6,105/-
	Testing of pipes.	4,511/-
	TOTAL.	13,94,723/-

	3 Filters.	
1.	Pipe connections from Valve Tower of the Dam.	22,602/-
2.	Laying drain pipe from co-agulation Tank.	29,536/-
3.	Laying 16" pipes from pump to wash-water Tank.	4,218/-
4.	Pipe connections from filter to pure water tank.	12,461/-
		68,817/-
5.	Constructing Filter House.	70,549/-
6.	Cost of filter materials.	1,24,580/-
7.	Equipment of Laboratory.	2,616/-
8.	Erection of filter parts.	21,709/-
9.	Installing a 75 H.P. Motor and Pump.	8,437/-
10.	Testing the structure of filters & Filter plant.	3,339/-
11.	Connecting the blower and the wash-pump motor.	1,287/-
12.	Heat run of 75 H.P. Motors.	127/-
		1,62,101/-
13.	Constructing coagulation Tank.	1,00,913/-
14.	" wash water tank.	6,934/-
15.	R. C. Works of Filters.	29,439/-
		1,37,286/-
16.	Clearance of site above Filters.	34,664/-
	4 Motors and Pumps.	
1.	Constructing pump & power house.	53,232/-
2.	" oil & store room.	3,672/-
3.	Installing Electric Lights to Pump House.	1,285/-
		58,189/-
4.	Cost of machinery.	76,421/-
5.	Erection of Motors and Pumps.	19,557/-
6.	Switch Board & low tension switch gear.	35,791/-
7.	Trial working of Filters & Pumps.	9,386/-
8.	Installing a Departmental Telephone.	878/-
		1,42,033/-
9.	Constructing pure water tank.	1,14,422/-
10.	Water tight treatment of the floor of the pure water tank.	13,598/-
11.	Roofing the storage tank at C. J. F.	67,445/-
12.	Laying 24" C. I. Distribution pipes at Combined Jewell Filters.	24,109/-
		2,19,572/-
13.	Clearance site around co-agulation Tank and Filters.	14,594/-
14.	Miscellaneous works Pump & Power House.	4,677/-
		19,271/-

-5 Buildings-

1.	Constructing Assistant Engineers Quarters.	7,734/-
2.	" Overseers Quarters No.1.	4,508/-
3.	" " No.11.	4,334/-
4.	" " No.111.	4,149/-
5.	" " No.IV.	4,243/-
6.	" Subordinates Quarters No.1.	4,776/-
7.	" " No.11.	5,099/-
8.	" " No.111.	4,695/-
9.	" " No.IV.	4,392/-
10.	" " No.V	4,427/-
11.	" " No.VI.	4,471/-
12.	" " No.VII.	4,536/-
13.	" Sub Assistant Surgeons Quarters.	2,502/-
14.	" Dispensary.	3,365/-
15.	" Police Station & Lock-up.	2,419/-
16.	" Police Inspectors Quarters.	2,528/-
17.	" Primary School & Post Office.	2,508/-
18.	" Inspection Lodge.	44,665/-
19.	Water Supply to Permanent Buildings.	6,148/-
20.	Electric connections "	3,245/-
21.	Annual Maintenance of Permanent Buildings.	808/-
22.	Laying pipe line for water supply to colony.	980/-
23.	Improvements to Inspection Lodge.	6,111/-
24.	Constructing a Vegetarian kitchen attached to the Inspection Lodge.	1,530/-
25.	Additional supply of crockery & cutlery.	154/-
		1,34,327/-

- 7 Fresh Works-

1.	Fixing additional guard rings on the 24" Rising Main.	13,765/-
2.	Purchase of chlorinator.	791/-
3.	Installing water heaters in the Inspection Lodge.	1,131/-
4,	Linking the 15" duplicate main with Civil & Military station main in Ballabrooie compound.	357/-
5.	Connecting the 24" pressure main to the duplicate main.	1,574/-
6.	Linking the 15" duplicate to the City 18" main at Low Level Reservoir.	954/-
7.	Raising the walls of Valve Cisterns.	4,887/-
8.	Laying 18" Industrial Main from Combined Jewell Filters to Binny Mills.	1,68,604/-
9.	Deviating certain portions of 15" Civil & Military Station main near Venkata-rangapuram.	5,319/-
10.	Installing a 24" Venturi Meter.	71/-
	Total.	1,97,453/-

1.	Purchasing & erecting a four million gallons pump set at Combined Jewell Filters.	13,716/-

- 8 Waste Weir -

1.	Priliminary work such as bore holes etc.	9,397/-
2.	Earthern Bund on the Eastern Flank.	34,721/-
3.	Four under sluices in the gorge:-	

Total Outlay:- 3,99,299-0-6

Deduct for gates 68,510-0-0 @ 5%

4.	Wing walls, toe walls, apron & revitment.		1,94,356/-
5.	Training wall between draft of open weir and draft of sluices.		1,111/-
6.	Approach clearing of sluices.		11,795/-
7.	Junction of sluices with open weir.		14,705/-
8.	Extension of wing walls.		11,228/-
9.	Approach and draft of open weir.		55,030/-
10.	Water cushions.		30,114/-
11.	Medicine & Sanitation.		6,552/-
12.	Extension of Temporary weir wall.		1,765/-
13.	Toe wall of apron.		2,501/-
14.	Apron in front.		12,318/-
15.	Raising the Extension of wing walls.		310/-
16.	Revitment in front of earthern bund.		708/-
17.	Further extension of wing wall.		7,292/-
18.	Providing sluice work above the up-stream wing wall.		3,136/-
19.	Raising the waste weir dam.		15,640/-
			7,51,468/-
20.	Constructing a flank weir with cushion apron.		35,497/-
21.	Cutting groves for cushion gates.		4,916/-
22.	Remaining works of waste weir:-		
	Outlay.	38,998/-	
	Deduct for emergency gates as per details in the 'C' Register.		
	Cost. Rs.	12,000/-	
	Electrical Equipment.	6,200/-	
	Auxilary hand gear & staunching rubber.	1,062/-	
	Erection of gates.	3,366/-	
	Anchoring arrangement.	309/-	
	Rails bolts & sleepers.	1,120/-	
		24,057/-	24,057/-
	Balance.	14,941/-	14,941/-
23.	Protective works of waste weir.		5,131/-
24.	Constructing Eastern wing wall.		256/-
25.	" Western.		8,555/-
26.	Protective works to masonry Bridge.		2,935/-
27.	Miscellaneous works of waste weir.		1,262/-
28.	Widening the Draft Channel, of open weir.		1,600/-
29.	Removing the mound beyond the II Cushion Body wall.		373/-
30.	Emergent works for controlling floods.		1,315/-
31.	Widening the approach channel of the Bridge.		385/-
			77,166/-
32.	Constructing Temporary Buildings, Sheds etc.		16,050/-
33.	" R. C. cabins for the stators.		2,006/-
			18.056/-
34.	Water Supply, Electric Lights etc.,		6,474/-
35.	Waste Weir gates (Vide Item No.3 above).		68,510/-
36.	Emergency Gate.	28,399/-	
	(Item No.22)	14,941/-	43,340/-
37.	Tools and Plant.		23,963/-
			1,42,287/-

10.12.38

Executive Engineer
Water Supply Div

Rd 794 /CB.

23rd December 1938.

26a

From

Rajasevaprasaktha
B.T. Kesavaiengar, Esq., B.A.,
Chief Secretary to the Government of His Highn
the Maharaja of Mysore.

To

The Secretary to the Hon'ble the Resident in Mysor
Bangalore.

Sir,

RENEWAL OF WATER SUPPLY AGREEMENT.

I am directed to invite reference to your letter No. R. Dis. F.474-38/R.O. II, dated 6th July 1938, suggesting the revision of rates for the supply of water to the Civil and Military Station Municipality.

Clause 4 of the Water Supply Agreement provides that after a period of five years from 16th March 1933 "the rates shall again fixed by mutual agreement after taking into consideration such fa as capital cost, depreciation charges, revenue and working expen the rates of depreciation being determined in accordance with engineering practice". The cost to the Mysore Government of wa delivered at the Combined Jewell Filters based on the figures of expenditure on maintenance, interest and depreciation charges, co to 7.52 annas per 1,000 gallons in 1937-38. For delivery at th Ground Reservoir, the cost amounted to 7.72 annas per 1,000 gall

The Government of Mysore have thus been losing heavily on th supply of water both to the Bangalore City Municipality and the Bangalore Civil & Military Station, and they consider that there therefore, no scope for any reduction in the rates. On the oth there is justification for raising the rates to the level of the price as it obtains at present. Further capital expenditure is necessary for the greater safety of the works and assurance of th supply. If the consumption in the Civil & Military Station inc

between the City and the Civil and Military Station in regard to the rates charged for water, the City Municipality being charged 5.85 annas per 1,000 gallons including distribution charges as against 7.65 annas per 1,000 gallons charged for the Civil and Military Station exclusive of the cost of distribution. This suggestion is obviously based on a misreading of the facts. In 1930 this Government ordered that the Bangalore City Municipality should be given 2 million gallons of water per day for Rs.4 lakhs to be paid by them. In 1933, in view of the fact that the population in the City was far larger than it was at the time the scheme was sanctioned and also of the fact that the City Municipal Council was unable to contribute a larger amount than Rs.4 lakhs, a tentative understanding was arrived at that supply up to a maximum of 2¾ million gallons per day might be given, that the total quantity supplied to the Municipality should be charged for in the usual course, and that in order to enable the Municipality to meet the excess charges due to increase in the quantity of the supply, a subvention might be paid by the Government to the Municipality for a period not exceeding five years. It will thus be seen that there was no idea of reducing the price of water. Then, as a result of further representations made by the City Municipality that even 2¾ million gallons of water was insufficient for the needs of the City, the Government directed that a supply of three million gallons per day be given. It will thus be seen that the rate intended to be charged to the City Municipality is 7.65 annas per 1000 gallons for the whole supply. As the Municipality is not in a position to pay more than Rs.4 lakhs a year, the deficit is treated as subvention till the Municipality is in a position to make the payment. There is therefore no ground for the criticism that there is differentiation in respect of the rates between the City

nd the Civil and Military Station. I am directed to state th
ie present rates may continue in view of the fact that the act
t of water to the Mysore Government is higher than the rates
now charged to the Civil and Military Station.

Since the question of retrocession is under active consideration and may take effect in the very near future, I am to state that there is no necessity for convening a conference for revision of rates as suggested in your letter under referen

Regarding the suggestion in your letter that there is no longer any need for the minimum guarantee of two million gallons per day, this Government consider that the minimum guarantee sh continue for a further period of at least five years, (beyond 1938) as it is that the daily average draw for the whole year of 1938 has only been 2.(million gallons. The removal of the minimum is not desirable until the average draw is substantially higher than two million gallons per day.

I have the honour to be,
Sir,
Your most obedient servant,

Chief Secretary to Government.

Draft Letter.

To Pol 794 / C.B. dt 26-12-

The Secretary to the Hon'ble the Resi
in Mysore, Bangalore.

RENEWAL OF WATER SUPPLY AGREEMENT.

Sir,

I am directed to invite reference to y
letter No. R. Dis. ~~No.~~ F.474-38/R.O. II, dat
6th July 1938, suggesting the revision of th
rates for the supply of water to the Civil
Military Station Municipality.

Clause 4 of the Water Supply Agreement
provides that after a period of 5 years
from 16th March 1933 "the rates shall again
fixed by mutual agreement after taking into
consideration such factors as capital cost,
depreciation charges, revenue and working
expenses, the rates of depreciation being
determined in accordance with engineering
practice". The cost to the Mysore Governm
of water delivered at the Combined Jewell
filters based on the figures of actual
expenditure on maintenance, interest and
depreciation charges, ~~worked~~ Cones out to 7.52
annas per 1000 gallons in 1937-38. For
delivery at the High Ground Reservoir, the co
mounted to 7.72 annas per 1000 gallons.

The Government of Mysore have thus been
sing heavily on the supply of water both
the Bangalore City Municipality and the Ba
ngalore C & M. Station, and they consider

any reduction in the rates. On the other hand there is justification for raising the rates to the level of the cost price as it obtains at present. Further, capital expenditure is found necessary for the greate safety of the works and assurance of the wate supply. If the consumption in the C & M. Station increases as expected, a new 18" main will have to be laid from the Combined Jewell Filters to the High Ground Reservoir. This will further increase the capital expenditure

It is suggested in your letter that the is differentiation between the City and the C & M. Station in regard to the rates charged for water, the City Municipality being charged 5.85 annas per 1000 gallons including - distribution charges as against 7.65 annas per 1000 gallons charged for the C & M. Statio exclusive of the cost of distribution. This suggestion is obviously based on a misreading of the facts. In 1930 this Government ordere that the Bangalore City Municipality should be given 2 million gallons of water per day for Rs.4 lakhs to be paid by them. In 1933, in view of the fact that the population in the City was far larger than it was at the time ~~that~~ the scheme was sanctioned and also of the fac that the City Municipal Council was unable to contribute a larger amount than Rs.4 lakhs, a tentative understanding was arrived at that supply up to a maximum of 2¾ million gallons per day might be given, that the total quantit supplied to the Municipality should be charged for in the usual course, and that in order to enable the Municipality to meet the excess

xcess charges due to increase in the qua
f the supply, a subvention ~~may~~ will be paid b
overnment to the Municipality for a peri
not exceeding five years. It will thus be
that there was no idea of reducing the pr
of water. Then, as a result of further
representations made by the City Municipa
that even 2¾ million gallons of water was
insufficient for the needs of the City, t
Government directed that a supply of three mi
gallons per day be given. It will thus
that the rate intended to be charged to t
City Municipality is 7.65 annas per 1000
for the whole supply. As the Municipalit
not in a position to pay more than Rs.4 l
a year, the deficit is treated as a subve
till the Municipality ~~gets into~~ is in a positio
to make the full payment. There is ther
no ground for the criticism that there is
differentiation in respect of the rates
between the City and the C & M. Station.
I am directed to state that the present r
may continue ~~till retrocession comes into~~
in view of the fact that the actual cost of wate
to the Mysore Government is higher than t
rates now charged to the C & M. Station.

Since the question of retrocession
under active consideration and may take e
in the very near future, I am to state th
there ~~will be~~ is no necessity for convening
conference for revision of rates as sugge
in your letter under reference.

Regarding the suggestion in your letter that there is no longer any need for the mini guarantee of 2 million gallons per day, this Government consider that the minimum guarante should continue for a further period of at le 5 years, as it is seen that the daily average draw for the whole year has only been 2.04 million gallons. The removal of the minimu is not desirable until the average draw is substantially higher than 2 million gallons per day.

I have, etc.

22/12

Chief Secretary to Government.

PUBLIC WORKS SECRETARIAT.

File No. of 193 .

Serial No.

D 484.
17-10-38.

SECY. LOCAL SELF GOVT. 18 OCT. 1938 GOVT. OF MYSORE.

Subject:- Bangalore Water Supply Agreement - Renewal of -

Reference:-(1) Letter No.F.474/38. R.O.II. dated t 6th July 1938, from the Secretary t the Hon'ble the Resident in Mysore.

(2) Letter No.156 dated the 12th August 1938, from the Executive Engineer,. Water Supply Division.

-----::0::-----

The Agreement with the Government of India for the supply of water to the Civil and Military Station, Bangalore, from the Thippagondanahalli - Reservoir, took effect from the 16th March 1933, t date on which the supply of water from the said - Reservoir commenced.

2. According to clause 4 of the above Agre ment, the rates prescribed shall be current for a period of 5 years from the date of commencement of the supply; and after that period, the rates shal again be fixed by mutual agreement, after taking - into consideration such factors, as capital cost, depreciation charges, revenue and working expenses the rates of depreciation being determined in acco ance with engineering practice.

3. As the period of 5 years has since ex- pired, it is now time to revise the rates; and th Residency, therefore, suggest that the Government

WD 01642—GPB—10,000—9-5-36

Mysore [redacted] appoint representatives to attend a conference for this purpose.

4. The Municipal Commission of the Civil and Military Station, have, it is stated, recently passed a resolution, asking for the revision of the -- rates, and expressing the hope that the Government of Mysore would agree to treat the Station Municipality on the same terms as the City Municipality. Reference is invited by the Residency in this connection to the statement made by Rajamantra Pravina Mr.K. Matthan, one of the Mysore Government's Representatives, in the conference held at the Residency on -- the 27th November 1928, that there was no intention to differentiate between the City and the Station in regard to rates.

4. It is pointed out by the Residency that the Bangalore City Municipality is supplied with a minimum quantity of 3 million gallons a day for a lump -- sum of Rs.4 lakhs (including the cost of distribution of about Rs.80,000/-) per annum; which works out to 5.85 annas only per 1000 gallons; and that the quantity in excess of the above minimum, is charged for at 7.25 annas only per 1000 gallons; which is considerably less than the rate paid by the Station, -- viz., 7.65 annas per 1000 gallons excluding distribution charges.

5. It is argued that as a result of the more favourable rates given, the Bangalore City Municipality are able to supply water to the consumers in the City at a lower rate and give a higher free minimum allowance than the Civil and Military Station Municipal Commissioner. The rates in the respective - -

Municipalities are compared below:-

	Civil and Military Station, Bangalore.	Bangalore City.
Excess water charges.	0-12-0 per 1000 gallons.	Re.1-0-0 per 1000 gallons.
Rate of free allowance.	100 gallons per month per rupee of monthly rental.	160 gallons per month per Rupee of monthly rental.
Free allowance.	2000 gallons minimum 5000 gallons maximum	4000 gallons minimum 15000 gallons maximum
Water tax.	6% of the annual rental value of the -- property.	4½% of the annual rental value of the property.

6. The Civil and Military Station Municipal Commission say that there is a considerable deficit under water supply, inspite of the higher rates -- charged in the Station, that the Municipal Commission do not desire to make a profit on the supply of water, but only to equalise receipts and expenditure, and to supply water at a cheaper rate to their consumers in the Station.

7. It has further been suggested that there is now no longer any necessity for the quarantee of payment for a daily minimum of 2 million gallons, as the daily consumption in the Civil and Military Station is, now, never far short of the minimum and some times exceeds it, and that there need be no -- apprehension that the Mysore Government will not get a reasonable return.

8. The Executive Engineer, Water Supply - -

WD 01642—GPB—10,000—9-5-36

Division, has worked out the costs of both Chamara Sagar and the Hessarghatta systems.

The gross cost of water during 1937-38 at th Combined Jewell Filters worked out to 7.52 annas p 1000 gallons and 7.77 annas per 1000 gallons for - delivery at the Civil and Military Station High - - Ground Reservoir.

Including the cost of distribution, the cost for the City has worked out to 6.37 annas per 1000 gallons. The total loss to Government during 193 38 worked out to Rs.1,28,238/-, assuming interest the prescribed rate of 5½%.

9. Inspite of the concessional rate of 5.85 annas per 1000 gallons upto 3 million gallons a da and of 7.25 annas above that limit, the City Munic pality had a deficit of Rs.1,66,291/- on account o water supply during -937-38, as compared with the anticipated loss of Rs.64,875/- during 1938-39 in the Civil and Military Station - vide statement -

10. If the present concessional rate of 5.85 annas per 1000 gallons is extended to the Civil an Military Station also, the present revenue to Gove ment from the Civil and Military Station will at o get reduced by about Rs.1,40,787/-. It is, theref not possible to have the terms the same in the two cases, as the total loss to Government from the tw cases will be very heavy. But there is ~~the assurance~~ assurance of Rajamanthrimme M. Mathai ~~Mr Vatthan's assurance~~ at the 1928 confere This has to be ~~discussed~~ met at the coming conference.

11. To prevent loss to Government, and to me the objection of the Civil and Military Station, - about differential treatment, the Executive Engine states that it seems desirable to charge the City Municipality also the same rates

the Civil and Military Station.

12. In view of the fact that the cost of water to the Mysore Government works out to 7.77 annas according to the latest figures of capital cost, at the delivery point, and the present rat charged to the Civil and Military Station is 7.6 annas per 1000 gallons for a minimum of 2 millio gallons per day, which is scaled down to 7.38 an per 1000 gallons for a daily supply of 2.5 milli gallons, involving some loss to Government, it i not possible to agree to a reduction of the pres rates; but on the other hand there is every jus fication for increase in the rate, taking into a count the actual cost of water to Government, fo delivery at the High Ground Reservoir, viz., 7.7 annas per 1000 gallons.

13. The daily average draw in the Civil a Military Station over the whole year is 2.04 mil gallons only. It is therefore necessary to con the guarantee of 2 million gallons per day for a further period of atleast 5 years.

14. In case Government consider, for obvia such objections in future, both the Municipaliti should be charged on a uniform basis, concessiona rate of 5.85 annas per 1000 gallons to the Banga City Municipality (calculated for a daily supply 3 million gallons for an annual payment of Rs.4

WD 01642—GPB—10,000—9-5-36

has to be withdrawn, and the same rate as charged to the Civil and Military Station also charged to the City Municipality. In that case the actual -- cost to Government will be 8.78 annas per 1000 -- gallons taking into account the cost of delivery at Combined Jewell Filter, viz., 7.52 annas per 1000 gallons and the cost of distribution 0.86 annas. But the city Municipality are already objecting to this 4 lakhs.

15. If it is not possible for the two Municipalities to balance their water supply budgets, it is up to them to find ways and means to meet the -- deficits from their general revenues, as Government should get at least its cost price of the water.

16. The Government have already been incurring a loss of about 1½ lakhs annually on account of water supply to Bangalore, taking into account interest at 5½ per cent on capital invested on the water supply project, and they cannot afford to incur further losses.

17. The Residency propose to convene a conference to discuss the points and request that this Government depute representatives thereto.

The undermentioned officers may represent thi Government:-

1. The Chief Engineer of Mysore.
2. The Secretary to Government, L.S.G.Department.
3. The Executive Engineer, Water Supply Division.

18. A draft reply to the Residency is herewit put up for favour of approval.

17/10

Dewan,
II Member,
Through the Chief Secretary,
& Sec' L S G.
2nd member

HRR/17th.

Immediate

PUBLIC WORKS
SECRETARIAT.

File No. of 193 .

Serial No.

SECY. LOCAL SELF GOVT.
27. OCT. 1938
GOVT. OF MYSORE.

D. 5-26
27/10/38

Note on Water Supply to Bangalo

Submitted with reference to the enquiry by the Second Member Council, the other days, in connectio with the question of renewal o the Bangalore Water Supply Agreement with the Governmen of India. vide. T.o. note No. D-484 dy

T 2. The note explains the circ under which the supply to the Ban City Municipality was fixed at 3 million gallons per day for an annual payment of Rs 4.00 lakhs, though accordi to Raja Mantia Pravina Mr. K. M assurance in the Conference in th Residency in November 1928, t intention of the Governmen

WD 01642—GPB—10,000—9-5-36

2198

was to charge the same rate
to the Bangalore City Municipality
as that charged to the C&M. Station.

27/10/38

Second Member
Thro
Secy L.S.G.

27/10/38

Sir,

I am directed to refer to the correspondence ending with your letter No. 3212 dated 27th October 1938 and to say that the Government have decided that the Bangalore City Municipality should be charged the same rate for water supply as that charged to the Cantonment Station.

I have the honour to be,
Sir,
Your most obedient servant,
Secretary to Government.

To
The Secretary,
Bangalore City Municipality.

Enc:
G.R.S. No.
1) Mc. 81-29 (1
2) Mc. 260-32 (9
3) Mc. 260-32 (
4) Mc. 260-32 (

Secy. Finance. The Addl Secy may also see these papers

28/10/38

28/10/38

Addl Secy
Mc

28/10

Note on Water Supply to Bangalore City

The Thippagondanahalli scheme, as finally approved by Government for Rs.50.33 lakhs, contemplated the supply of water to the City and the C. & M.Station at a uniform rate of 7.65 annas per 1000 gallons, assuming that the total consumption will be 4 million gallons per day (2 million gallons for the City and 2 million gallons for the C. & M. Station).

2. On this basis, the share of the Bangalore City Municipality amounted to Rs.3½ lakhs per annum, excluding the charges of distribution, estimated at Rs.½ lakh. Thus, the total amount payable by the City Municipality was fixed at Rs.4 lakhs; for a supply of 2 million gallons per day, including the cost of distribution. (G.O.No.M.L.2033-5. dt 5/30 8/1-29-8)

3. The Bangalore City Municipality brought to notice in 1933, that the quantity of water pumped to Bangalore City upto 18th March 1933 was on an average 1.95 million gallons per day, and that the average supply after the Thippagondanahalli scheme came into service ranged from 2.72 to 3.90 million gallons per day; but, it was cut down to 2.17 million gallons in May 1933; and prayed that orders might be passed for an adequate supply of water to the City.

4. The Chief Engineer stated that the maximum quantity of water that would be supplied to the City daily was 2¼ million gallons; and that if the City Municipality was prepared to pay for a larger quantity, the supply would be increased to 2½ million gallons per day on an average; and on special occasions upto 3 million gallons.

5. The question was discussed by the 2nd Member of Council, with the President, Municipal Council, the Municipal Commissioner and the Chief Engineer on 30th June 1933 when

it was agreed that an average supply of 2½ to 2¾ million gallons per day would be necessary for the City.

6. The Municipal President said that it would be impossible to obtain further amounts from the Municipal Council beyond what they had agreed to; and that therefore a small additional quantity of water upto -- 2¾ million gallons per day might be given for the sum of Rs.4 lakhs already ~~waived~~ fixed by Government.

7. The Chief Engineer stated that the C. &. M. Station was charged a rate of 7.65 annas per 1000 - - gallons for their supply and that the City should -- receive a similar treatment.

8. In view, on the one hand, of the inability of the Municipal Council to find more funds, and on the other of the fact that the population of the City was far larger in 1933 than was contemplated when the scheme was sanctioned (i.e., in 1930), a tentative -- understanding was arrived at viz., that a supply upto a maximum of 2¾ million gallons per day might be given for the amount already fixed by Government, and that any supply in excess of the agreed quantity should be paid for by the Municipal Council.

9. The concession to the City Municipality of an excess quantity of ¾ million gallons per day over 2 million gallons at 7.65 annas per 1000 gallons was in the form of a grant-in-aid to the Municipality of a sum of Rs.50,000/-, owing to its inability to pay more than Rs.4 lakhs for the larger quantity of 2¾ million gallons per day; and the full quantity was ordered to be

1 for at the prescribed rate, subject to future adjustment as above. The concession was to be limited for a period of 5 years only; and the additional supply was to be given only after satisfying the demand of the C. & M.Station under the Agreement - vide G.O.No.L.1129-31/Ml.260-32-13 dated the 9th August 1933.

10. Subsequently, as a result of the Deputation of the Bangalore City Municipal Council, in modification of the above order, Government ordered that a supply of 3 million gallons of water per day be given to the - - - Bangalore City Municipality for a sum of Rs.4 lakhs to be paid by it every year, and that any supply beyond that -- quantity should be paid for by the Municipality at rates to be settled in due course - vide G.O.No.L.2410-12/Ml. 260-32-16 dated the 12th October 1933.

11. The excess quantity over 3 million gallons is being charged for at 7.25 annas per 1000 gallons.

12. It will be seen from the above, that the rate intended to be charged to the City Municipality was 7.65 annas only per 1000 gallons for a supply of 2 million -- gallons per day, but was subsequently fixed at 2¼ million gallons a day for the sum of Rs.4,00,000/- to be paid by them, including the cost of distribution in the City; and that the quantity in excess of the above limit upto 3 million gallons is purely a gift by Government, in the form of grant-in-aid, to which the C. &. M. Station cannot take exception.

Chief Engineer of Mysore.

HRR.2/27th.

't Letter.'

Revised

The Secretary to the Hon'ble the Resident in Mysore, B a n g a l o r e.

Renewal of Water Supply Agreement.

Sir,

I am directed to invite reference to your letter No: R. Dis. No. F.474-38/R.O. II dated 6th July 1938 suggesting the revision of the rates for the supply of water to the C & M. Stn. Municipality.

Clause 4 of the Water Supply Agreement provides that after a period of 5 years from 16th March 1933 the rates shall again be fixed by mutual agreement after taking into consideration such factors as capital cost, depreciation charges, revenue and working expenses, the rates of depreciation being determined in accordance with engineering practice." The ~~gross~~ cost of water to the Mysore Govt. based on the figures of actual expenditure on maintenance, interest and depreciation charges ~~for delivery~~ at the Combined Jewel Filters ~~Filters~~ worked out to 7.52 annas per 1000 gallons in 1937-38, ~~as is se from the calculation in the note appended.~~ For delivery at the High Ground Reservoir, cost amounted to ~~7.77~~ 7.72 annas per 1000 gallon

delivered at the Combined Jewel Filters

The words in brackets may be retained if a calculation sheet is appended. Otherwise they may be deleted - The Residency will desire to know how we arrive at these figures.

Sub 8. May be omitted
The details may be given later if asked for.
Jpcf
13/12/38

The Government of Mysore have ~~conceque~~ thus been losing heavily on the supply of water to the Bangalore City Municipality and the Bangalo C & M. Station, and they consider that ther therefore no scope for any reduction in the rates.

On the other hand there is justification

justification for raising the rates to the level of the cost price as it obtains at present. Further capital expenditure is found necessary for the greater safety of the works and assurance of water supply. If the consumption in the C & M. Station increases as ~~is~~ expected, a new 18" main will have to be laid from the Combined Jewel Filters to the High Ground Reservoir. This will further increase the capital expenditure.

It is suggested in your letter that ther is differenciation between the City and the C & M. Station in regard to rates of supply ~~of~~ water ~~and that~~ the City Municipality ~~is~~ supplied with water at the rate of 5.85 annas per 1000 gallons including distribution charges. This is based on a misunderstanding In 1930 the Government ordered that the Bangalore City Municipality should be given 2 million gallons of water per day for Rs.4 lakhs ~~which would have~~ to be paid by them. In 1933, in view ~~of the inability of~~ the City Municipal Council to contribute a larger amoun than Rs.4 lakhs ~~and also~~ of the fact that the population in the city was far larger than was contemplated when the scheme was sanctioned, a tentative understanding was arrived at that supply up to a maximum of $2\frac{3}{4}$ million gallons per day might be given, ~~and~~ that the total quantity supplied to the municipality should be charged for in the usual course and that in order to enable the municipality to meet the excess charges due to increase in the quantity of the supply, a

a subvention may be paid by the Government to the Municipality for a period not exceeding 5 years. Then, as a result of representation made by the deputation of the municipality that even that quantity of water was insufficient for the needs of the city, the Government directed that a supply of 3 million gallons per day be given to the municipality. It will thus be seen that the rate intended to be charged to the City Municipality is also 7.65annas per 1000 gallons for the supply of 2 million gallons and that any quantity of water given in excess of the above limit is in the nature of a grant by the Government to the City Municipality. There is therefore no reason for the criticism that there is differenciation in respect of the rates between the City and the C & M. Station. [How the Civil Station, Bangalore, has to be treated in respect of rates for supply of water after retrocession is a matter which may be left to the Mysore Government.] I am directed to state that the present rates may continue till retrocession comes into effect, in view of the fact that the cost of water to the Mysore Government is higher than the existing rates.

Since the question of retrocession is under active consideration and may take effect in the very near future, I am to state that there will be no necessity for convening a conference for revision of rates as suggested in your letter under reference.

Regarding the suggestion in your letter that there is no longer any need for the minimum guarantee of 2 million gallons per day, this Government considers that the minimum guarantee should continue for a further period of at least 5 years, as it is seen that the daily average draw for the whole year has only been 2.04 million gallons, ~~while the margin should be wider before the minimum can be waived.~~ The removal of the minimum is not desirable unless the actual draw is seen to be fairly regular over 2 million gallons

I have etc.,

Chief Secretary to Government.

13/12/38.

37/11/38

Draft

vide Record draft put up as per Second meeting instructions. Flag 'K'

PUBLIC WORKS SECRETARIAT.

File No. of 193 .

Serial No.

From

The Chief Secretary to Government,

Bangalore.

To

The Secretary

to the Hon'ble the Resident in Mysore,

Bangalore.

Subject:- Bangalore Water Supply Agreement - Renewal of —

Sir,

I am directed to acknowledge the receipt of your letter No.F.474/38.R.O.II. dated the 6th July 1938, regarding the above subject, and to inform you in reply, that His Highness's Government would be glad to appoint representatives to the conference proposed for settling the rates for the water to be supplied to the Civil and Military Station.

M

2. They, however, wish to state that the cost of water to this Government, based on the figures of actual capital expenditure, maintenance, interest and depreciation charges, for delivery at the Combine Jewell Filter and at the High Ground Reservoir, is very much higher than the rates at which water is being supplied all these years, both to the City and the Civil and Military Station. ~~This~~ Government have been losing heavily on the ~~water~~ supply and they ~~therefore feel~~ consider that there is not likely to be any scope for reductions. On the other hand there is

WD 01642—GPB—10,000—9-5-36

justification for raising the rates to cost price, as it obtains at present. In this connection I am also to add that further capital expenditure is -- found necessary for the greater safety of the works and assurance of water supply. This will further raise the cost.

2. Regarding the suggestion that there is no longer any need for the minimum guarantee of -- 2,000,000 gallons per day, ~~His Highness's~~ this Government ~~desire~~ that the minimum guarantee should be continued for a further period of atleast 5 years, as it is seen that the daily average draw over the whole year has only been 2.04 million gallons, ~~This Government consider that~~ and they wish the margin should be wider before the minimum -- can be waived.

3. As, ~~any how~~ however, these matters will come up for discussion in the ~~proposed~~ conference proposed in your letter, ~~His Highness's~~ the Government do not wish to go into the details at this -- stage.

4. The undermentioned officers will represent the Mysore Government at the conference:-

1. The Secretary to Government, L.S.G.Department.
2. The Chief Engineer of Mysore.
3. The Executive Engineer, Water Supply Division.

I have, etc.,

17/10/25

Chief Secretary to Government,

RR/17th.

17/10

803

Telegraph Address : "HYDRAULICS"

All communications should be addressed by title and not by name. In all future correspondence, please quote this No. E.B. 531 & one Statt

GOVERNMENT OF MYSORE.
PUBLIC WORKS DEPARTMENT.
OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
Dated Bangalore, 27th November 193 8.
29th

FROM

THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,

CHIEF ENGINEER BANGALORE

5465
1-12-38.

To

The Chief Engineer of Mysore,
BANGALORE.

SIR,

BANGALORE WATER SUPPLY AGREEMENT RENEWAL.

With reference to your No.4310 dated 8th November 1938, requesting to verify details showing the cost of water per 1,000 gallons at Combined Jewell Filters and at High Ground Reservoir of Civil and Military Station during the year 1937-38, I have the honour to submit herewith the working details arriving at the cost of water per 1,000-gallons as intimated in this office No.156 dated the 12th August 1938 for kind information.

The details called for about the amount of depreciation working up to Rs.1,10,000/- will be submitted shortly. The figure is however based keeping in view the provision made in the past years i. e., Rs.79,000/- for the year 1934-35, Rs.89,600/- for the year 1935-36, Rs.10,000/- for the year 1936-37 and Rs.10,500/- for the year 1937-38 as also the amount expended towards capital from year to year.

Details showing the provision to be made towards Depreciation in respect of several items as detailed in P.W.Secretary's No.1762 dated 12th March 1934 and as further modified by the Comptroller in the light of the Chief Engineer's No.3199 dated 6th October 1936 and intimated by him to this office in Comptroller's No.62/WAD.I. dated

dated 30th July 1937, are being prepared and they will be submitted in about the middle of December 1938.

I have the honour to be,

S i r,

Your most obedient servant,

H Gauld
28-11-38

Executive Engineer,
WATER SUPPLY DIVISION.

11a) Secy 30/11

The submission of details referred to in the Ex Engr's letter may be awaited

Record for the present

7-12-38

Additional charges per 1,000 gallons to pump water to Civil & Military Station Reservoir.	7.52
	. 2 annas
Cost of water per 1,000 gallons at Civil & Military Station Reservoir.	7. 72annas

****

25.11.38

Executive Engineer,
WATER SUPPLY DIVISION.

P. W. DEPARTMENT. WATER SUPPLY DIVISION.

Details of working out the cost of water per 1,000 Gallons at Combined Jewell Filters.

Quantity of water pumped from Chamarajsagar during 1937-38. ... 2,031,758,000 Gallons.

			Rate per 1,000 gallons.
1.	Power charges Rs.3,24,042-0-0.	...	$\frac{3,24,042 \times 16 \times 1,000}{2,031,758,000}$ = 2. 5 annas.
2.	Interest on capital of Rs.68 lakhs at 5½%.	...	$\frac{68,00,000 \times 16 \times 11 \times 1,000}{100 \times 2 \times 2,031,758,000}$ = 2. 9 annas.
3.	Maintenance charges detailed below:- a. Consumable stores. ... Rs.30,445/- b. Repairs to Buildings. ... Rs.20,341/- c. Tools and Plant. ... Rs. 931/- Total. Rs.51,417/- or Rs.50,000/-	...	$\frac{50,000 \times 16 \times 1,000}{2,031,758,000}$ = .4D annas.
4.	Establishment charges:- a. Executive & Ministerial. Rs.23,148/- b. Temporary Work charged - Establishment. Rs.15,613/- c. Travelling Allowance. Rs. 800/- d. Contingency. Rs. 100/- Total. Rs.39,661/- or Rs.40,000/-	...	$\frac{40,000 \times 16 \times 1,000}{2,031,758,000}$ = . 32 annas.
5.	Depreciation charges.	...	. 8 annas.
6.	Loss at 10% in transit.	...	. 6 annas.
	Cost of water per 1,000 gallons at Combined Jewell Filters.		8—54 annas.

br Immediate To D.H.4.

FROM

The Secretary to Government, P. W. D.

To

The Ex Engr
W S Dn

Subject Bangalore water supply
agreement — Renewal of —

With reference to his
letter No 156 D the 12th Aug 1938
regarding the above subject,
has the honor to request the Ex Engr
to verify again
furnish details for the figures in
Statement I, working out the
cost of water per 1000 Gallons at 7-5-2
annas at C.T.F and at 7-7 annas
at the High ground Res^r of the CMWSS
during the year 1937-38.
The work may be treated immediate
2 details as to how the

2 depreciation works upto Rs 1,10,000/-.

may be furnished, if necessary

after from
~~by~~ ascertaining the Compl^t^ No.

3 No marks may be entered
in Roll and the reply furnished in 2 days.

for C.E.

8/11/38

Rm
8/10 hi

8-11-38

20 5(a)

PUBLIC WORKS SECRETARIAT.

Draft for approval

No. 1224

Dated 3-8-1938.

FROM

The Chief Engineer of Mysore, Bangalore.

To

The Chief Engineer
Madras

Subject. Renewal of the Bangalore water supply agreement.

Has the honour to invite a reference to this Office No. 457 of 13/7/38 regarding the above subject and to request that the report called for thereon may be furnished immediately.

3/8/38

3/8/38

No: 1116-S.

17.10.1938.

From

The Secretary to Government,
Public Works Department,
Bangalore.

To

The Secretary to the Hon'ble the
Resident in Mysore, Bangalor

Subject:- Bangalore Water Supply Agreemen

Sir,

I am directed to acknowledge the receipt of your letter No.F.474/38.R.O.II dated the 11th October 1938, addressed to the Chief Secretary to Government, regarding the above subject, and to inform you that a reply will be sent to you shortly.

I have, etc.,

13/10/38

Secretary to Government,
P. W. Department.

2

HRR/13th.

DEWAN'S OFFICE
13 OCT 1938
No. 24

P 463
13-10-38

PUBLIC WORKS SECRETARIAT.

Abstract of important references received on ..... 193 .

WD 02513—GPB—3,000—23-4-36

Serial No.	From whom	Brief Abstract
	The Secretary to the Hon'ble the Resident in Mysore, Bangalore. No.F.474-38/II. dated the 11th October 1938.	Requests the favour of an early reply to his letter dated the 6th July 1938, regarding the renewal of the -- Bangalore Water Supply Agreement. --- Note:- This is an important question 2. The Municipal Commission of the C & M Station have made a representation for the revision of the -- rates and for being treated on the -- same terms as the City Municipality. They have observed that a higher rate of 7.65 annas per 1,000 gallons (for a minimum of 2,000,000 gallons per day) is charged to them (which is exclusive of the cost of distribution), while the rate charged to City Municipality -- works out to 5.85 annas per 1,000 gallons including distribution charges, (for a supply of 3 million gallons per day for an annual payment of - - - - Rs.4,00,000/-). It is also suggested that there is no longer the need for the minimum guarantee of 2,000,000 gallons per day. 3. A conference is proposed and it is requested that the Mysore Government appoint representatives to attend it. 4. A note will be submitted shortly. 5. An ad-interim reply to the Residency is put up for favour of -- approval.

This is a matter affecting "Electricity". It is a matter entirely within the province of Hydro.

Secretary to Government,
Public Works Department.

Bangalore,
October 1938.

HRR/13th.

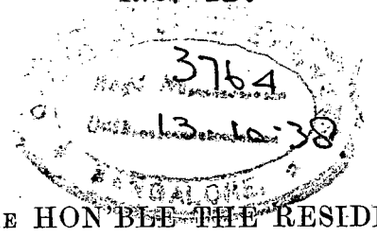
The Dewan of Mysore.

II (a)

Issue the ad interim reply & enable disposal of the case.

Pol 602

R. Dis. No. F. 474-38 / R.O. II.



THE SECRETARY TO THE HON'BLE THE RESIDENT IN MYSORE.

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore, Bangalore.

Dated Bangalore, the 11th October *1938*.

BANGALORE WATER SUPPLY AGREEMENT.

I am directed to refer to my letter No.R.Dis.F.474-38/R.O.II, dated the 6th July 1938, and to request the favour of an early reply.

I have the honour to be,
Sir,
Your most obedient servant,

for SECRETARY TO THE RESIDENT.

262

Telegraph Address : "HYDRAULICS"

All communications should be addressed by title and not by name. In all future correspondence, please quote this No. 757

Encl. 3 statements

GOVERNMENT OF MYSORE.
PUBLIC WORKS DEPARTMENT.

OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
Dated Bangalore, 8th August 1938
12th August 1938

16574
13-8-38

FROM

THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
BANGALORE.

To

The Chief Engineer of Mysore,
BANGALORE.

SIR,

BANGALORE WATER SUPPLY AGREEMENT.

With reference to your letter No.457 dated 13th July 1938, forwarding copy of letter No.R.Dis.F.474-38/R.O.II dated 6th July 1938, from the Residency to the Chief Secretary, I have the honour to submit a detailed report as follows together with connected data-

The working costs of both Chamarajsagar & Hesaarghatta systems have to be reviewed before the new agreement is arranged for.

Statement No.1 shows that the gross cost of water during 1937-38 at the Combined Jewell Filters has been 7.52 annas and for delivery at Civil & Military Station, High Ground Reservoir has been 7.77 annas per 1,000 gallons. For the City, including cost of distribution, the total cost for the Department has been 8.37 annas per 1,000 gallons. The total loss to Government in Water Supply in 1937-38 has been Rs.1,28,238/ which works out at a return of below 3 % on the investment. The returns in 1936-37 were lesser still.

In spite of the concessional rate of 5.85 annas per 1,000 gallons up to 3 million gallons a day and 7.25 annas above that limit, the City Municipality has lost Rs.1,66,291/- in 1937-38, compared with the loss of Rs.64.875/- expected in 1938-39 by the Civil & Military Station-

tation Vide- Statement I enclosed.

If therefore the present concessional rate of supply granted to the City is extended to the Civil & Military Station the present revenue to Government from the Civil & Military Station will be immediately reduced by about --- Rs.1,40,767/- and the total loss to Government on the supply to the two Municipalities will be about Rs.2.2 lakhs. Detail vide- Statement II enclosed.

In order to meet the objection of the Residency regarding the differential treatment obtaining between the two Station and to prevent great losses to Government, it is desirable to charge the City also the same rates as are charged to the Civil & Military Station. It is impossible to extend to the Civil & Military Station the concession granted to the City without very heavy loss to Government. In this connection, kind attention is invited also to Government Order No.L.20 dated 5th September 1930, wherein it is stated that the City Municipality will have to contribute towards the annual recurring charges in proportion to the supply of water made to the City. at the same rate as the C and M. Station.

The drawal in the City and the Civil & Military Station, is steadily rising and very soon the present combined capacity of 6 million gallons a day of the Chamrajsagar and 1.4 million gallons a day of the Soldevanhalli system will be exceeded. It will therefore be necessary for the Government very shortly to rehabilitate the entire Hesserghatta system at a cost of Rs.3 lakhs to obtain 3 million gallons a day from it, and to lay an 18" main from Combined Jewell Filters to High Ground Reservoir at a cost of -- Rs.1.8 lakhs to meet the rising demand of the Civil & Military Station These commitments will further go to slightly raise the cost of water

the

The supplies to Civil & Military Station in the coming will have to be reckoned at the average of 2.5 million gall a day besides arranging for peak loads during summer. To s ment the receipts from Chamarajsagar the Hessarghatta syste will have to be worked either partially or wholly as per ne The cost per 1,000 gallons at Combined Jewell Filters will 7.88 annas for the Department. In order to supply the incr quantity to Civil & Military Station, it will be necessary shortly to lay an additional 18" main from Combined Jewell to High Ground Reservoir and the interest, depreciation and maintenance charges on the main working out to .67 annas pe 1,000 gallons have to be added to the above cost. The net of water delivered at the Civil & Military Station Reservoi will be 7.88 + 0.67 = 8.55 annas per 1,000 gallons. Should ever, the Civil & Military Station Municipality wish to lay 18" line at their cost, the cost of water will then be 8.15

The present rate for water supplied to Civil & Military Station is 7.65 annas per 1,000 gallons up to a minimum of million gallons a day and the rate is scaled down to 7.38 a when the limit of 2.5 million gallons a day is reached. Ag this the cost for the Department has all along been 7.77 an at the delivery point, involving the Government in some los

As the cost of water in the coming years will actually b little higher still, it is clear that the rates now obtaini cannot be reduced.

In conclusion, I beg to submit the following for your - consideration-

1. It may not be possible to reduce the rate for water su to Civil & Military Station from what is now.

DATA CONNECTED WITH BANGALORE WATER SUPPLY - BANGALORE.

Statement I.

I. Cost of water in 1937-1938.

1. Annual Maintenance Expenses of Chamarajsagar & Water Works, Soldevanhalli & Combined Jewell Filters in 1937-38. Rs.4,75,683/-

2. Depreciation on Chamarajsagar Plant. ... Rs.1,10,000/-

3. Interest on Chamarajsagar capital of Rs.67,25,364/- at 5½% for 1937-38 ~~as per previous intimation.~~ Rs.3,69,889/-

Total expenses for Filtered water at Combined Jewell Filters Station. ... Rs.9,55,572/-

Quantity of water delivered from Combined Jewell Filters in 1937-38. 2032.84 Million or 2,033 Million Gallons.

Cost of 1,000 gallons at Combined Jewell Filters. 7.52 annas.

II. Cost of Distribution in 1937-38 in Bangalore City Distribution.

Annual Maintenance Estimate of Bangalore City Distribution in 1937-38. ... Rs.47,172/-

Salaries of Establishment. ... Rs.21,031/-

Total Annual Maintenance Estimate. ... Rs.68,203/-

Water delivered in 1937-38 to areas except Civil & Military Station. 1,286.58 Million Gallons.

Cost of 1,000 gallons distributed. 0.86 anna or 10.3 pies per 1,000 Gallons.

III. Quantity supplied to Civil & Military Station in 1937-38. 746.26 Million Gallons.

Daily average in Civil and Military Station. 2.044 Million Gallons a day.

IV. Gross quantity supplied to City including areas outside Municipal limits. 1,286.58 Million Gallons ~~a day.~~

-do- -do- City. 3.525 -do- a day

V. ~~Portion of~~ cost of distribution of water to High Ground Reservoir of Civil & Military Station. 0-0-3 per 1,000 gallons = 0.25 anna.

Gross cost of water delivered in 1937-38 at High Ground Reservoir in Civil & Military Station. 7.77 annas

VI. Income to Government from the Water Supply Scheme in 1937-38.

From City Municipality as per bills sent.	Rs.4,30,791/-
From Civil & Military Station as per bills sent.	Rs.3,67,959/-
Binny Mills and areas outside Municipal Limits..	Rs. 96,685/-
Gross income in 1937-38. ...	Rs.8,95,435/-
Gross expenditure in 1937-38.	Rs.10,23,775/-

VII. Losses in the supply of water to the Government. Rs. 1,28,342/-

Losses in 1936-37 & 1935-36 were greater than Rs.1.5 lakhs.

VIII. Situation of the City Municipality in 1937-38 connected with Civil & Military Station.

Water rate on houses in City. ...	Rs. 1,40,000/-
Excess water revenue credited from Water Supply Department to Municipality. ...	Rs. 1,24,500/-
Total income from Water Supply. ...	Rs. 2,64,500/-
Government bills claimed for water supplied.	Rs. 4,30,791/-
Balance to be met from General Funds of Municipality or losses in 1937-38.	Rs. 1,66,291/-
Losses expected by Civil & Military Station in 1938-39 (4,11,450 - 3,46,575).	Rs. 64,875/-

Comparative Data connected with Bangalore Water Supply, if equal rates are applied to both City and Civil & Military Station for five years from 1938-39 at the rates now fixed to City Municipality, Bangalore namely Allow 5.85 annas per 1,000 gallons for 2 Million Gallons a day and charge the excess above 2 Million Gallons a day at 7.25 annas per 1,000 gallons. 2 Million Gallons a day being the present average at Civil & Military Station just as 3 Million Gallons a day is in the City-

A. Civil & Military Station.

1. Present daily consumption with 2,000 & 5,000 gallons limits in 1937-38. 2.044 Million Gallons a day or 746 Million Gallons.

2. Expected consumption in 1938-39 with 3,000 & 10,000 gallons per month as proposed in latest rules to City under - immediate sanction by Government. 2.5 Million Gallons a day or 913 Million Gallons.

3. Income on 2 Million Gallons a day at 5.85 annas per 1,000 gallons same as allowed to City Municipality- Rs.2,66,906/- for 730 Million Gl.

Income on excess 183 Million at-- 7.25 annas per 1,000 gallons same as allowed to City Municipality. Rs. 82,922/- for 183 - do -

Gross income on 913 Million Gallons Rs.3,49,828/-

Income if sold at present agreement rates 7.65 to 7.38 annas per 1,000 gallons for 2.5 Million Gallons a day for one year. Rs.4,34,533/-

Loss compared to present rates. Rs. 84,705/-

B. City Municipality.

1. Present free allowances. 4,000 & 15,000 Gallons per month

2. Proposed reductions. 3,000 & 10,000 -do-

3. Additional Revenue expected to the Municipality to be credited to make up Rs.4 lakhs as per G.O. of 1933. Rs. 30,000/- approximately.

4. Present supplies of water in City - Municipal limits in 1937-38. 1,168 Million Gallons.

5. Expected reduction due to reduction in free allowance for various reasons mentioned in the covering letter. - Nil -

6. Present bills of Government to City Municipality. Rs.4,30,791/-

7. Present deficit to the Municipality from their water revenues. Rs.1,66,291/-

Future bills of Government to City Municipality in 1938-39, if rates are reduced to 3,000 & 10,000.		Rs.4,30,791/-
Expected deficit then.	...	Rs.1,66,291/-

Income to Government under these concessional conditions in 1938-39 and onwards.

From Civil & Military Station.	...	Rs.3,49,228/-
From City Municipality.	...	Rs.4,30,791/-
From other revenues outside Municipal limits.		Rs. 96,583/-
Total expected revenues.	...	Rs.8,84,302/-

Expenditure to Government under these conditions in 1938-39 or so.

Civil & Military Station pumpage	= 913 Million gallons	instead o	
City Municipality pumpages.	=1,168	-do-	-do-
Outside Municipal limits	= 119	-do-	-do-
Total pumpages to be made	2,200	-do-	-do-

Excess to be supplied = 167 Million gallons in one year.

Cost of water 1,000 gallons with interest taken at 5½% including distribution to High Ground Reservoir 7.77 annas per 1,000 gallon

NOTE:- 7.77 annas = 7.52 at Combined Jewell Filters + 0.25 at High Ground Reservoir.

Excess cost to be added for 167 Million gallons $\frac{1,67,000 \times 7.77}{16.}$

=Rs. 81,099/-

Original costs for 2,033 Million gallons taking interest at 5½%.	10,23,775/-
Total costs for 2,200 million gallons for immediate next year.	11,04,874/-

Losses in the transaction:-

Expected income at concession rates to Civil & Military Station also.	8,84,302/-
Loss in immediate next year.	2,20,572/-

Further Data in connection with Bangalore Water Supply to be - considered for added supplies from Chamarajasagar and Hessarghatta s combined during the next five years from 1938-39 up to 1942-43 end.

---

1. For Civil & Military Station:- to get at least 2.5 Million Gallons a day average per year and to arrange for Peak loads at dif ent seasons when normal yearly average is only 2.5 Million gallons a

1. Existing Main 15", 40 years old 12,920 feet and capacity 2.1 M Gallons a day to 2.2 with pressure of 120 feet superimpos Combined Jewell Filters.

2. Additional main to be necessarily laid- Size 18" capacity jointly to deliver about 4 million gall a day taking naturally to consideration the growth for tw decades.

3. Peak load variation as per experience 4 to 4.5 Million Gallons

4. Cost of 18" main 14,000 to 14,500 feet long in main road Rs.1,8 compound.

5. Rate of compound interest 4% + depreciation 2½% together = 6½%.

6. Expected cost per 1,000 gallons if the capital cost + interest depreciation is to be recovered in 25 years = Five pies p 1,000 gallons nearly.

11. If 24" main of Chamarajsagar & Water Works cannot be duplic until 1942-43, arrangements to supply required water to Bangalore w be:-

Chamarajsagar & Water Works Pumpage expected = 5.2 to 5.5 Maxim Million Gallons a day.

Hessarghatta system Pumpage necessary. 1.4 to ¾ Million gallon day.

1. Present value in Civil & Military Station share of joint property of Hessarghatta system to be paid back as - demanded in their valuation = Rs.3 lakhs in round figures.

2. Purchase of Turbanhalli Main + completing 2 miles Rising Main to Combined Jewell Filters + installing new pumps extra at Soldevanhalli + duct renovation etc. Rs.3 lakhs.

3. Present value of Hessarghatta system including Combined Jewell Filters detailed as follows (excluding Hessarghatta).Rs.8 La

Hessarghatta system outlay to end of 32-33 as in Capital & Revenue Accounts.	Rs.38,58,231/-
Depreciation	Rs.22,70,800/-
Present value Hessarghatta system.	Rs.15,87,431/-
Deduct Bangalore City Distribution system.	Rs. 7,87,431/-

Hessarghatta system to be worked for both Civil & Military Station and City. Rs.8 lakhs in round + figures (3).

erest on Rs.14 lakhs items 1, 2 & 3 at 4½%. Rs.63,000/-

reciation on Rs.11 lakhs items 2 & 3 at 3% Uniform. Rs.33,000/-

Total Interest + Depreciation. ... Rs.96,000/-

The rates for commencing the New Agreement will therefore as follows:-

Cost for 2,033 million gallons from (Soldevanhalli + Chamarajsagar) existing system. =Rs. 9,55,572/- a

Excess of 180 million gallons from Soldevanhalli + Turbanhalli + Filtration at C.J.F. if charged at 3.5 annas per 1,000 gallons as based from actual expenses of Annual Maintenance from 1926 to 1933, will be. 39,375/-

Interest + Depreciation as above detailed. 96,000/-

∴ Total costs for 2,213 Million Gallons from Chamarajsagar + Soldevanhalli + Turbanhalli. Rs.10,90,947/- a

∴ Costs per 1,000 gallons in 1st year = 7.88 annas at C.

Hence so far as Civil & Military Station agreement is cerned our rates will have to be as follows:-

7.88 annas at Combined Jewell Filters + 5 pies or .42 a for the cost of new 18" main to High Ground Reservoir + .25 annas for delivery of water there including mainter and repair and supervision and establishment -
= 7.88 + .42 + .25 = 8.55 annas per 1,000

H. Gauri
12.8.38

Executive Engineer,
WATER SUPPLY DIVISION.

273

Telegraph Address : "HYDRAULICS"

All communications should be addressed by title and not by name. In all future correspondence, please quote this No. 172

GOVERNMENT OF MYSORE.
PUBLIC WORKS DEPARTMENT.

OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,

Dated Bangalore, 15th August 1938.

OFFICE OF CHIEF ENGR. Rect. No. Date. BANGALORE

1724
16838

FROM

THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
BANGALORE.

To

The Chief Engineer of Mysore,
BANGALORE.

SIR,

Subject:- Water Supply to Civil & Military Station - Laying of an 18" diameter main to deal with future supplies needed at their High Ground Reservoir from Combined Jewell Filter Station, Bangalore.

With reference to your letter No.90 of 4th July 1938, regarding ~~requesting me to work out the~~ rates for water to be charged for the Civil & Military Station supplies in connection with the New Agreement which ~~has~~ falls due in 1938-39 and also in connection with the retrocession of the Civil & Military Station to Government of Mysore, I have the honour to state that these data have been worked out in detail and are under submission in connection with the disposal of your letter No. 90 dated 4.8.38 dealing also with the same subject.

457 13/7/38

Described briefly the data will be higher than even in the original agreement of 1933-38. The reasons are:-

1. For obvious reasons the Civil & Military Station, will have to be supplied with water at greater free allowances than at present ~~given~~ especially because they are comparing their position with the City Municipality and are demanding equal concessions. The consumption in the next five years is expected to mount up to ~~not less than~~ 2.5 to 3 Million Gallons a day.

2. With such a daily average supply the peak load will go up to 4.5 Million Gallons a day and the mains leading t High Ground Reservoir have to be of this capacity at least

3. To be able to supply the increased quantities to Cit as well to Civil & Military Station in the next five years and to successfully manage the summer Peaks in such years, we have to take over charge of Turbanhalli and Soldevanhal Stations in addition to Chamarajsagar single 24" main till such time as this latter main gets duplicated (that is) before 1943 positively.

Due to all these reasons the data of pumping costs will be as detailed in the disposal of the other reference.

The data in brief are as follows:-

1st year:- 1) Present cost for 2,033 Million Gallons from Chamarajasagar + part working of - Soldevanhalli Station and for issue of water at Combined Jewell Filters. Rs. 9,55,572/

2) Add 180 Million Gallons needed extra in 1st year from both the Soldevanhalli + Turbanhalli Stations. Rs. 39,375/

3) Interest + Depreciation on present value of Hessarghatta system + Turbanahalli Plant. Rs. 96,000/

∴ Costs for 2,213 Million Gallons. Rs.10,90,947/

∴ Rate for 1st year per 1,000 Gallons. 7.88 annas

2nd year:- Total costs for 2,393 Million Gallons. Rs.11,30,322/-

∴ Rate for 2nd year per 1,000 gallons. 7.55 annas

34d year:- Total costs for 2,573 Million Gallons. Rs.11,69,697/-

∴ Rate for 3rd year per 1,000 gallons. 7.27 annas

4th year:- Total costs for 2,753 Million Gallons. Rs.12,09,072/-

∴ Rate for 4th year per 1,000 gallons. 7.03 annas

5th year:- Total costs for 2,933 Million Gallons. Rs.12,48,447/-

∴ Rate for 5th year per 1,000 gallons. 6.81 annas

After

To these rates we have to add the costs of a new 18" main and the operation establishment and supervision charges for delivering water to Civil & Military Reservoir. The rate is as follows:-

	Capital cost of 18" main from Combined Jewell Filters to Civil & Military Reservoir.	Rs.1,80,000/-
i)	Interest at 5½% per year. ...	Rs. 9,900/-
ii)	Depreciation at 2½% per year. ...	Rs. 4,950/-
	At simple interest rates the values in 20 years = Rs.1,98,000 + 99,000 =	Rs.2,97,000/-
	Capital cost of main. ...	Rs.1,80,000/-
	Total money to be recovered. ...	Rs.4,77,000/-
	∴ Costs per year to be recovered.	Rs. 23,850/-

Taking an average supply year for delivering in these mains to Civil & Military Reservoir to be at 2.5 Million Gallons a day or 913 Million Gallons, the costs per 1,000 gallons = .42 annas per 1,000 gallons.

Add cost of Establishment and Supervision and operation and maintenance costs = .08 annas per 1,000 gallons.

Total costs per 1,000 gallons = 6 pies per 1,000 gallons.

The rates to Civil & Military Station will thus have to vary from 7.88 + .5 or 8.38 annas to 6.81 + .50 or 7.31 annas per 1,000 gallons at the least. The present rates are 7.65 to 7.38 annas per 1,000 gallons in the old agreement.

As regards the City Municipality, it is not known ~~how~~ why we should ~~ought~~ not ~~to~~ levy similar rates except for the reason that people are far poorer in the City than in Civil & Military Station. In view also of the fact that a guarantee seems to have been furnished in 1928 or so, that there will not be any

any difference in the rates charged to the two Stations ~~the~~ may have only course which will have to be left to Government ~~is~~ to give larger subventions each year to the City Municipality. This matter however requires deeper consideration.

2. The calculations are given as above.

I have the honour to be,

S i r,

Your most obedient servant,

H Gaussen
13.8.28

Executive Engineer,
WATER SUPPLY DIVISION.

Renewal of the
Bangalore water supply
agreement.

Letter No. F.474-38
R.O. II
dated the 6th July 1938
from the ~~Secy. to the~~ Resident
~~Hon'ble the Resident~~
~~in Mysore, Bilgrami~~
to the Chief Secy. to Govt.

B. 457
R. 13.7.1938.

Copy of the above
is forwarded to
the Ex. Engr., W.S.D.
for submitting a
detailed report

contains in his

letter.

He makes

many kind

remarks "immense

DEWAN'S OFFICE
12 JULY 1938
No. 203

D 26
12.7.38

PUBLIC WORKS SECRETARIAT.

Abstract of important references received on 8.7. *1938.*

WD 02513—GPB—3,000—23-4-36

Serial No.	From whom	Brief Abstract
1	The Secretary to the Hon'ble the Resident in Mysore. Letter No. 7.4.74-38 dt. Ro. II 6th July 1938.	Suggests that the Mysore Government appoint a representative to attend a conference for the purpose of revising the rates for water supplied to the C.T.M. Station, as new Bangalore water agreement dated 16 March 1933 requires renewal in 1938 (Letter enclosed)

Earl
13-7-38

Bangalore,
8/7 1938.

Secretary to Government,
Public Works Department.

9/7/38

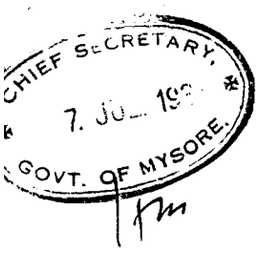
11-7-38

The Dewan of Mysore.

THE SECRETARY TO THE HON'BLE THE RESIDENT IN MYSORE.

The Chief Secretary to the Government o
His Highness the Maharaja of Mysore.

Dated Bangalore, the 6th July 1938.



BANGALORE WATER SUPPLY AGREEMENT.

SIR,

I am directed to refer to clause 4 of the water supp agreement 'A'. The supply of water from the 'T' reservoir began on the 16th March 1933 and under this clause it is now time to revise the rates. The Resident would be grateful i the Mysore Government would appoint representatives to atter conference for this purpose.

2. The Municipal Commission have recently passed a resolution asking for the revision of the rates and expressi the hope that the Mysore Government will agree to treat the Station Municipality on the same terms as the City Municipal On the 27th November 1928 a Conference was held at the Resid at which Mr. Matthan one of the Mysore representatives, said that there was no intention to differentiate between the Cit and the Station in regard to rates and that the Mysore Gover ment would have no objection to writing to the Resident a le containing this assurance. It is understood however that t City Municipality pays to the Mysore Government a lump sum c Rs.4 lakhs (which includes the cost of distribution amountir to Rs.80,000/-) for a minimum guaranteed supply of 3 millior gallons per day. They are thus supplied with water at the rate of 5.85 annas per 1000 gallons. Water supplied above

minimum

minimum is charged at 7.25 annas per 1000 gallons. The rate of 5.85 annas per 1000 gallons at which water is supplied to the City and which includes distribution charges, is considerably less than the rate paid by the Station - 7.65 annas allons excluding distribution charges for all water.

3. As a result of the more favourable rates given to the City Municipality they are able to supply water to their consumers at a lower rate and give a higher free minimum allowance than the Municipality of the Civil and Military Station. The comparative rates are as follows:-

Station.	
Excess water charges at 12 annas per 1000 gallons, in excess of the free allowance calculated at 100 gallons per month for every rupee of the monthly rental subject to a minimum of 2,000 gallons and a maximum of 5,000 gallons. Water tax 6% of the annual value of property.	Re.1/- per 1000 gallons in excess of the free allowance calculated at 160 gallons per month for every rupee of the monthly rental subject to a minimum of 4,000 gallons and a maximum of 15,000 gallons. Water tax 4½% of the annual value of property.

4. In spite of the higher rates charged in the Station there is a considerable deficit under 'water-supply' in the budget of the Civil and Military Station Municipality. In the 1938-3 budget the receipts under water-supply are estimated at Rs.3,46,575/- and the expenditure at Rs.4,11,450/-; an excess of Rs.64,875 over receipts. The Municipality do not desire to make a profit on the supply of water, but only to equalise expenditure and receipts and to supply cheaper water to their consumers.

5. It has further been suggested that there is now no longer any necessity for the guarantee of payment for a daily minimum of 2 million gallons. The object of this minimum presumably was to ensure that the Mysore Government should obtain a certain return from their large capital expenditure on the scheme. The daily consumption in the Civil and Military Station is however now never far short of the minimum and sometimes exceeds it; so that there

o longer appears to be any reason for the maintenance of this guarantee nor for the apprehension that the Mysore Government will not get a reasonable return.

6. The Hon'ble the Resident supports the conclusions put forward by the Commission and hopes that it will be possible to convene a Conference without delay.

I have the honour to be,

Sir,

Your most obedient servant,

SECRETARY TO THE RESIDENT.

The Chief Engineer of Mysore, Bangal

To

The Executive En

W S Dn

Subject Water supply to

Station Agrahara

Laying of an 18" di

main from C. T. F - G

Ground Reservoir

With refere

to your letter

of the 1st June

regarding the

subject has

honor to inform

the Engr that

of the impending

~~end~~ of the termination

5 year period of the

Bangalore water supply

ment, ~~the~~ which

ies renewal in 1938-39,

the impending retrocession,

nance of which,

ate agreements

e necessary between

sore Govt & Pri

the Mysore Govt

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High ground Res

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Consideration
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18th. March 1
C. J. F. to the
Ground Reser
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be seen that
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C. J. F. will be
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and the rate
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~~not less than~~

[illegible], and the Military

[illegible] & the Air proceeded

a, with the different

[illegible] assume a uniform

~~etc~~ the rate is only

three —

The Exchequer is therefore

asked to furnish

ulations ~~and~~ for

-ys rates accordingly.

— early date

4/7/38

Chancellor

28/6

25/6/38

28/6

27-6-38

Telegraph Address : "HYDRAULICS"

All communications should be addressed by title and not by name. In all future correspondence, please quote this No. 1277

GOVERNMENT OF MYSORE.
PUBLIC WORKS DEPARTMENT

OFFICE OF THE EXECUTIVE ENGIN
WATER SUPPLY DIVISION,

Dated Bangalore, 31st May / June

FROM

THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
BANGALORE.

To

The Chief Engineer of Mysore,
BANGALORE.

SIR,

Subject:- Agreement with Civil & Military Station for Supply.

I have the honour to state that the agreement drawn up between the Secretary of State and the Durbar, regarding the 2 to 2.5 million gallons of water a day, requires renewal in

2. The Civil & Military Station gets its supply through a the capacity of which is about 2.2 million gallons a day at During summer months the demand goes from 2.2 to 2.7 or even This extra quantity is as a temporary measure being met from Duplicating main which was laid at the cost of the City Muni This arrangement cannot continue long in view of the increas for the supply of water in the City. The power consumption for a small increase in the discharge and further as the lin it is not desirable to strain it beyond the present limit of

3. In view of the retrocession, the Municipality of the re area may demand all the concessions that are being now shown City Municipality and it is certain that the daily demand of may go up to 3 million gallons a day or even more.

In the above circumstances, it is considered desirable

main

main preferably 18" diameter is laid so as to guarantee the supply of at least 4 to 5 million gallons a day and to meet the increasing demand of water of both the retroceded area and the Cantonment Board. It is seen that a fall in the High Ground Reservoir level below 7 feet affects the supply to the Residency and other areas. Hence there is great need to have a large - reserve capacity in this main.

The question of laying this main has to be immediately taken up and a new agreement if necessary will have to be entered into between the Secretary of State and the Dewan. Also the question to who is to meet the cost of laying this main namely the Civil & Military Station or the Mysore State has to be decided. Early instructions are solicited in the matter. Since under the preser agreement the Mysore Government delivers water up to 2.5 million gallons a day at the High Ground Reservoir and the Government of India have handed over the Civil & Military Main to Mysore Govern free of cost the responsibility of laying this additional main seems to rest with the Mysore Government.

Early.
By I Inst

I have the honour to be,

S i r,

Your most obedient servant,

1-6-38

Executive Engineer,
WATER SUPPLY DIVISION.

2.6

Bangalore Water Supply.

The Agreement with the C. & M. Station for supply of water came into force from 16-3-1933. The rates were subject to revision at the end of 5 years. The question was taken up about 1938, but was deferred as the Retrocession was under consideration.

The costs of maintenance have gone up and the rates require revision. Proposals were sent up to the Residency on 15-9-1945. It has been suggested that the rates for each year may be determined on actual costs.

The rates have been worked out for 1942-43, 1943-44, 1944-45 and 1945-46. As they are much in excess of the rates allowed in the Agreement, extra payment has been asked for.

Data for cost of water are the same as adopted at the time of the Agreement. Interest charges have been reduced from 5½ to 5 as per orders of Government. Rates of depreciation for plant and machinery, etc., fixed as per standard practice at that time are retained.

The Municipal Commission have raised the question of the guaranteed minimum of 2 million gallons and say that the amounts paid in previous years for water not drawn should be set off against what is now demanded for the three years 1942-43, 1943-44 and 1944-45.

At the time of the Agreement this particular question has been fully gone into and the minimum for which the Municipal Commission had to pay has been fixed. This cannot be reopened now.

The rate at which the payments were made and the rates now claimed are as below:

1942-43	..	7.62	7.81
1943-44	..	7.61	8.68
1944-45	..	7.49	8.19
1945-46	..	7.598	8.10.

The total amount due for the years is Rs. 1,54,391.

Population as per census of 1941:

City ..	2.50	lakhs
C. & M. Station	1.60	"
Total ..	4.10	"

Present approximate population:

City ..	4.00	lakhs
C. & M. Station	2.20	"
Total ..	6.20	"

Capacity - Hesserghatta ..	2.5	M.G.D.	
Chamarajsagar ..	7.0	"	
Receipt into Filters:			
Hesserghatta ..	1.3	"	(Soldevanhall
	0.2	"	(Turbanhalli)
Chamarajsagar ..	7.0	"	
Total ..	8.5	"	
For 1945-46, Average Draw ..	8.24	"	(Max. 8.65)

Issues:

City	4.87	"
C. & M. Station	2.94	"
Industrial, etc.	0.435	"
Total ..	8.245	"

(Maximum draw for the C. & M. Station was 2.5 M.G.D.
original Agreement. Maximum supplied any day was

On the completion of works now in progress which is

by the end of 1947, the Chamarajsagar Reser

capacity would be 10 to 10.5 M.G.D. Incl

Hesserghatta supplies of 1.5 M.G.D., the t

would be 12 M.G.D.

y raising the storage to 3038 M.cft., from 2364 A

and installing pumping sets and filters, the capacity of

(Comptroller's Office)

Statement showing the gross cost for 1000 gallons.

Interest on

Capital cost of Chamarajasagara Water Works (New)	Rs 78,82,117
- do - Hessaraghatta System (Old)	7,78,900

Amounts required for works sanctioned and to be sanctioned.

a) Pipes and Filters	31,31,698
b) Buildings & Service Reservoirs	4,63,615
c) Pumps and machinery	3,25,780
d) Dam	2,80,000
Gross capital cost	1,28,62,110
Interest at 5% on the gross capital cost	6,43,105
The rate of interest for 1000 gallons taking into account a mean supply of 3100 million gallons a year will be	3.32

Depreciation.

Depreciation to end of 42-43 as intimated by Comptroller	1,21,700
- do - on (a) at 2½%	78,293
- do - (b) at 1%	4,636
- do - (c) at 5%	16,289
- do - (d) at ½%	1,400
Depreciation on Rs.7,78,900 at 3% on Hessarghatta system	23,367
Total	2,45,685
The rate for 1000 gallons works outto	1.27 a

Operation costs.

Annual maintenance charges for 43-44 has been taken at Rs.8,72,0 (revised estimated for 43-44) on which basis a sum of 4.23 annas per 1000 gallons has been worked out. An average of 4-10 annas per 100 gallons has been taken into account on this basis considering it as But the cost per 1000 gallons works upto 4.50 annas as per correct calculation taking the revised figure of Rs.8,72,000. An average of 4.40 annas per 1000 gallons may be taken into account in round figur based on the correct average of 4.50 annas.

Overhead charges.

Executive Administration and audit charges comes to 30,000. Calculated on the mean supply of 3100 M.G. the cost for 1000 gallor works upto .. .. .. .15 annas

Thus gross cost for 1000 gallons works upto

(3.32+1.27+4.40+.15) = 9.14 annas.

).	Particulars.		1942-
ıpital cost of Chamarajsagara works new		Rs.	76,82,117
ıterest at 5%			3,94,106
›tal water issued from Combined Jewell Filters M.G.			2,551
ıterest per 1000 gallons	Annas		2.47
›preciation charges -			
a) As intimated by Comptroller		Rs.	1,21,700
b) Depreciation on plant to be added yearly			-
Total Depreciation to be taken.			1,21,700
epreciation per 1,000 gallons	Annas		0.76
orking expenses:			
a) Chamarajsagar A.M. (New)		Rs.	4,54,853
b) -do- (old)			2,61,764
c)			
otal Chamarajsagar A.M. New and Old.			7,16,617
educt A.M. of Bangalore City Distribution thus -			
1) Expenses as in C Register excluding regular establishment salary.			46,955
2) -do- in 2 months 44-45			-
3) Regular establishment salary of B.C.C.as in books of Division Office			13,578
4) War allowances for same 44-45			-
Total A.M. A.M.Expenses B.C.D. to be deducted from Item 7 -			60,533
et total working expenses as accrued formater issuing from Combined Jewell Filters to Bangalore. ...			5,56,084
orking expenses per 1,000 gallons	Annas		4.11
otal Costs per 1000 gallons at C.J.F.common to City and C & M Station = items 4 + 6 + 10.			7.34
otal cost per 1000 gallons for delivery at C & M Station Reservoir			7.44
Aggregate rate as charged now			7.6
Interest & Depreciation on the present value of old Chamarajsagar or Hessarghatta plant of Rs.7,76,900 at 5 + 2½ = 7½%			58,416

...supply to Civil & Military Station, Bangalore.

1943-44.	1944-45.	Explanatory remarks.
2,76,028	94,86,028	
4,13,801	4,74,301	
2,571	2,730	2,730 M.G. expected to be issued in 1944-45 due to service in 27" main 7 miles also. These are based on 9 months actuals and three months expected in 1944-45.
2.58	2.78	
1,22,000	1,35,000	In Column 4 for 43-44, plant added = R.3,93,911 Depreciation on same = R.9,866 Similarly in column 5, for 44-45 plant to be added 12.10 lakhs.
9,866	28,704	The estimated figures of depreciation for this 12.1 lakhs = R.28,704.
1,31,866 (1,22,000+9866)	1,63,704	
0.82	0.96	
5,56,379	5,96,200	
2,94,424	2,99,500	
8,50,803	8,94,700	
47,689	43,229*	
-	13,000	
28,350	26,900	
-	4,000	Appx.
76,039	87,129	
774,764	8,07,571	= Items 7 - 8.
4.82	4.73	
2.50 + 0.82	2.78 + 0.96	
+4.82	+4.73	
=8.22	= 8.47	
8.32	8.57	The addition of 0.1 annas is approximately the extra for maintaining C & M Station main and for taking daily water readings plus revenue and audi as extra over B.C.D. cost. This figure is only approximate.
7.60	7.6	
58,418	58,418	As already opened by the Financial Secretary and the Comptroller, this value must also be added t the capital cost of Chamarajanagar New as long as that plant is used for water supply of Bangalore.
0.36	0.34	
8.68	8.57+.34 = 8.91	

R Manbaee
for Secretary to Govt 14/9/45
to P.W. Deptt.

Sl.No.	Particulars.		1942-43
1	Capital cost of Chamarajnagara works now	Rs.	78,82,117
2	Interest at 5%		3,94,106
3	Total water issued from Combined Jewell Filters M.G.		2,551
4.	Interest per 1000 gallons	Annas	2.47
5.	Depreciation charges - (a) As intimated by Comptroller	Rs.	1,21,700
	(b) Depreciation on plant to be added yearly		-
	Total Depreciation to be taken.		1,21,700
6	Depreciation per 1,000 gallons	Annas	0.76
7	Working expenses: (a) Chamarajnagar A.M. (New)	Rs.	4,54,853
	(b) -do- (old)		2,61,764
	Total Chamarajnagar A.M. New and Old.		7,16,617
	Deduct A.M. of Bangalore City Distribution thus - (1) Expenses as in C Register excluding regular establishment salary.		46,955
	(2) -do- in 2 months 44-45		-
	(3) Regular establishment salary of B.C.D.as in books of Division Office		13,578
	(4) War allowances for same 44-45		-
	Total A.M. A.M.Expenses B.C.D. to be deducted from Item 7 -		60,533
9	Net total working expenses as accrued formeter issuing from Combined Jewell Filters to Bangalore. ...		6,56,084
10	Working expenses per 1,000 gallons	Annas	4.11
10	Total Costs per 1000 gallons at C.J.F.common to City and C & M Station = Items 4 + 5 + 10.		7.34
12	Total cost per 1000 gallons for delivery at C & M Station Reservoir		7.44
13	Aggregate rate as charged now		7.5
14	Interest & Depreciation on the present value of old Chamarajnagar or Hessarghatta plant of Rs.7,78,900 at 5 + 2½ = 7½%		58,418
15	Cost of 14th item per 1000 gallons	Annas	0.37
16	Gross costs of item 15 is added per 1000 gallons		7.81

Supply to Civil & Military Station, Bangalore.

1943-44.	1944-45.	Explanatory remarks.
2,76,028	,028	~~Explanatory~~
4,13,801	,301	
2,971	,730	2,730 M.G. expected to be issued in 1944-45 due to service in 8"main 7 miles also. These are based on 9 months actuals and three months expected in 1944-45.
2.96	.78	
1,22,000	,000	In Column 4 for 43-44, plant added = R.3,93,911 Depreciation on same = R.3,966 ~~Similarly~~ Similarly in column 5, for 44-45 plant to be added 12.10 lakhs.
9,866	,704	The estimated figures of depreciation for this 12.1 lakhs = R.20,704.
1,31,866		
100+9866	,704	
0.82	0.96	
5,56,379	,200	
2,94,424	,500	
8,50,803	,700	
47,689	,229*	
-	,000	
28,390	,900	
-	,000 Appx.	
76,039	,129	
774,764	,571	= Items 7 - 8.
4.82	.73	
2.58 + 0.	78 + 0.96	
+4.82	+4.73	
= 8.22	= 8.47	
8.32	8.57	The addition of 0.1 crore as it approximately the extra for maintaining O & M Station main and for taking daily water readings plus revenue and such as extra over B.G.L.cost. This figure is only approximate.
7.60	7.6	
58,418	58,418	As already opened by the Financial Secretary and the Comptroller, this value must also be added to the capital cost of Chamarajnagar New as long as that plant is used for water supply of Bangalore.
0.36	0.34	
8.68	8.57 + .34	
	= 8.91	

Rajakaryaprasakta
N. NARASIMHAIYA, Esq., B.A., C.E., M.I.E.(Ind.),
Chief Engineer for Irrigation.

MYSORE PUBLIC WORKS DEPARTMENT,
CENTRAL OFFICE, IRRIGATION.

Dated Bangalore, the 6th Sept 1946

107 Note

My Dear Sir,

As desired I enclose a Note of discussions at the Conference held in the Dewan's Chambers on 5-9-1946, on Bangalore Water Supply.

Yours Sincerely,

N Narasimhaiya

L. Siddappa, Esq., B.A., LL.B.,
Minister for Agriculture & Public Works,
Bangalore.

The Conference was held in the Dewan's Chambers when the Public Works Minister, Chief Engineer for Irrigation, President Bangalore Cit Municipality and the Chairman, City Improvement Trust Board were present.

The Dewan observed at the outset that Bangalore was the fifth city in India; with the retrocession of C & M Station now impending and large open spaces becoming available for expans on the eastern side, the probability of some al India Institutions such as Military Training Ce being established and the rapid development of i industries and the tendency of the "Trek" of ru population to the cities where modern amenities were available, Bangalore was bound to expand t much larger extent hereafter. He envisaged the possibility of the population reaching 8 lakhs within the next five years. It was therefore necessary that the water supply problem should handled with these conditions in view.

2. The Chief Engineer explained that Banga has been on rationed supplies all these years. the Visvesvaraya Committee laid down in 1929 th 30 gallons per head per day was to be the minim to be provided for, it has not been possible to reach that standard. On the other hand the per capita consumption had gone done from 16 gallon 12 gallons.

er day may be assumed for the present purpose.

4. Thus a total daily consumption of 16 million gallons a day was to be expected within the next five years and an increase there after.

5. The Chief Engineer explained the details furnished in the note as to the present capacity of the plant etc. The daily receipts at present are 8.3 million gallons. With the completion of the sanctioned works now in progress by the end of 1947, the capacity would be 10 millions gallons a day. He further stated that estimates for increasing the storage by raising the Chamarajasagar Dam by 10 feet, installation of two pumping units filters etc., to bring up the capacity to 15 million gallons a day were under preparation and that as per working tables this rate of draw was maximum that could be depended upon from this Reservoir.

6. The details of the Scheme for pumping water from the Cauvery near Sivasamudram anicut were then explained. The first stage was for a supply of 15 Million Gallons per day. The plant would comprise suitable pumps and filters and a Cast Iron Main of 42" diameter.

7. The Chairman, Trust Board and President, Municipality emphasised that in view of rapid - expansion of the City and the present in-adequate supplies of water it was quite necessary to take all steps to arrange for satisfactory supply for this important city.

8. The conclusions

8. The conclusions as below were arrived at

(1) The present sanctioned works should be peeded up to obtain a capacity of 10 million gallons day.

(2) The estimates for further improvements to aise it to 15 million gallons a day should be xpedited and all action necessary to start the works s early as possible taken.

(3) The Scheme of obtaining the supplies from the auvery should be immediately taken into consideratio

(4) The General Manager, Mysore Iron and Steel orks Bhadravathi now on deputation in America - hould be asked to make enquiries for the additional lant to manufacture C.I. Pipes of 42" diameter - roposed for the main delivery pipes in the Cauvery cheme.

M. Narasimhaiya
6.9.46.

Letter No.1805 dated 15/26th June 1946 from the Executive - Engineer, Water Supply Division, Bangalore, to the Chief Enginee for Irrigation in Mysore, Bangalore.

A scheme for Future Bangalore Water Supply from the Cauvery River Valley.

With reference to G.O.No.P.W.3041-42 of 30-11-1944 directin that Rough Surveys and costs of a scheme for the above work be conducted, I have the honour to submit the scheme as prepared af completing the above surveys. This scheme was ready in Septembe 1945 alone. It is however now supplemented by an addition to br water from the Cauvery River near Sivasamudram Anicut during tim when the inflow in the Shimsha River below confluence with Hebba may not be adequate.

The scheme contains all the estimates, reports, plans etc., which have been discussed from time to time. As it was unoffici ascertained that the Postwar Planning Committee is contemplating recommend this scheme to Government in the course of June 1946, set of estimates and reports handed over in person to the Chief Engineer on 14-6-1946 are resubmitted.

The following points however require consideration and secu suitable orders:-

1. If the C.I. pipes required for this scheme are to be made Mysore Iron & Steel Works, Bhadravathi then a Government order s issue for the equipment needed to manufacture 42" diameter C.I. p and special

2. That the full development of 15 M.G.D. supplemented by 1 M.G.D. from Hessaraghatta will be over reached by Bangalore befo 1957. Hence if water shortage and rationing should be avoided t Cauvery scheme should be inservice from 1957-58. But since it t nearly ten years to complete this scheme at the rate at which My Iron and Steel works can give us pipes, it is necessary that thi scheme be given the first priority amount of the Postwar plans and works started from 1947-48 at the latest.

P.T.O

3. That Mysore Iron and Steel Works be ordered by Gover to make experiments and manufacture C.I. pipes with inside lining or bitumen lining.

4. That future irrigation from the Seepage waters of Ir Canal area be limited to such an extent as to below about 90 cusecs to flow into the Shimsha River in the summer sea of each year.

5. That a Government Order be issued to the Mandya Suga Factory to treat their trade wastes and leave into Hebbaha as purified effluent of acceptable standard of purity.

6. That all these papers plans etc., be got printed and kept for use when needed.

"COPY"

GCS/2nd.

CHIEF ENGINEER FOR IRRIGATION.

Protected water was supplied to Bangalore for the first time in 1896 from Hesserghatta Lake. The scheme was designed to meet the requirements for a period of 20 years at 12½ gallons per head per day. The inadequacy of supplied was, however, felt even from 1907. In 1926, the tank became completely dry on account of failure of rains and water supply to Bangalore had to be arranged for by resorting to emergent measures. The Yelemallappa Chetty Tank was utilised for this purpose and kept on up to 1933 in addition to the Hesserghatta Lake.

With a view to provide a more reliable and adequate source of supply, the Chamaraj Sagar New (Thippagondanahalli) Scheme was undertaken in 1929-30 and service was given from the system from 1933. This scheme was "to provide 20 gallons per head per day for a population of 3,00,000 and capable of extension to give 9 to 10 million gallons later on."

In view, however, of the ever increasing demands for water and the limitation of supplies from the new scheme also, the Hesserghatta Lake, which had been released for irrigation, was again pressed into service from 1938.

The population of Bangalore as per census is noted below

1891	1901	1911	1921	1931	1941	(1946)
180,868	149,732	189,485	237,496	306,470	406,760	(620,000

The capacity of Chamaraj Sagar New is 7 M.G.D.

The supply from Hesserghatta Lake is 1.3 M.G.D. as 1.2 M. is drawn away by the Military.

In effect, the present total capacity from Hesserghatta and Chamaraj Sagar is 8.3 M.G.D. With the completion of sanctioned works now in progress, viz., duplication of the main, etc., the capacity by the end of 1947 would be (10 1.3 11.3 M.G.D.

The water works were designed for a per capita consumption of 20 gallons per day. On account of the rapid expansion of the city, this standard has never been reached. On the other

hand, the per capita consumption has gone down from about
Gallons (1933-37) to 12.5 gallons per day in the City. So
as the C. & M. Station is concerned, it is less. The minim
standard of a satisfactory supply of water is 30 gallons pe
inclusive of what may be required for flush latrines.

As per the trend of rise in population it is expected
the increase per decinnium would be about 50%, so that by
the population is expected to reach over 6 lakhs. At 20 g
per day the total demand for water will be 16 M.G.D. and at
24 M.G.D.

It is proposed to raise the Dam at Chamaraj Sagar by i
and also instal additional plant to bring up the capacity f
10 M.G.D. to 15 M.G.D. With this draw the reservoir can o
hold for 2½ continuous bad years. It is risky to expect a
further draw, judged from the experience of the behaviour o
reservoir for the last 13 years.

It will thus be seen that for further expansion beyond
it will be necessary to go in for additional sources of supp
This has been under intensive investigation for the last tw
years and the Cauvery River is found to be the only resort
the purpose.

The scheme has been worked out in full detail. It is
proposed to draw water from the Shimsha River normally and
certain months of bad years this storage across the Shimsha
to be supplemented by means of a main from Sivasamudram Ani
up to this point.

The length of the main from Shimsha Anicut up to Bangal
would be 50 miles and the pumping would be arranged in thre
stages, limiting the total head at each stage to not more th
500 feet. The stations would be at Shimsha Anicut, Channap
and Devagiri near Kumbalgod. The main would run more or le
parallel to the Bangalore-Mysore road. Inclusive of the

necessary works for filtration, etc., the total cost of the scheme is expected to be about Rs. 3.5 crores.

1) Cost of C.I. Main, 42": 100,000 tons at Rs.240 per ton.	...	2.40	cro
2) Plant to be imported from abroad, such as pumps, valves.	...	0.40	"
3) Labour charges & other works	...	0.70	"
Total	...	3.50	"

The cost of water is estimated to be As.9.5 to As. 9 1000 gallons against As. 8 at present.

The time required for completion of the scheme is at least 10 years and additional quantities of water would b available only after the whole scheme is completed.

Chief Engineer for Irrigation.

The Bangalore City Municipality has been paying a lump sum of Rs. 4 lakhs for 3 million gallons x 365 days and for all quantities drawn above this limit it is payir at As.7½ per 1000 gallons, as per Government Order No. dated

The receipts to the Municipality are derived from

(i) Water tax at 4½% of rental value - Rs. 2,38,000

(ii) Excess water charges at Re.1/ 1000 gallons over and above free allowances of 3000 gals. minimum and 10,000 gals. max. at 100 gals. per rupee of rental value per year and free allowance for flush of 750 gals. for one flush per month to 1500 gals. per month for 2 flushes. Rs. 2,00,000

(iii) Non-domestic connections, such as hotels, trades, etc., at Re.1 per 1000 gals. of water drawn. Rs. 60,000

(iv) Government buildings & Institutions at As.8 per 1000 gals. for all water drawn. Rs. 4,00,000

The total receipts come to about Rs. 5½ lakhs again the demand of about Rs. 6½ lakhs for 1945-46.

II. The C. & M. Station are paying under an Agreeme With Government on a sliding scale of As.7.65 to 7.38 pe 1000 gallons. As per informal understanding reached in recent conference, the rates are to be fixed as per actu costs. For the year 1945-46 it has worked out to As.8. 1000 gallons.

In the C. & M. Station the water tax is 6% of the r value and minimum and maximum free allowances are 2500 a 5000 gallons, and excess collected at As.12 to Rel per 1000 gallons.

III. If the actual working rate of As.8.1 is made applicable to the Bangalore City Municipality, they will be liable to a payment of Rs.8,86,000 for the year 1945-

The capital cost up to 1945-46	-	1.10	lakhs
Cost of sanctioned works ..		.20	"
		1.30	"
Probable cost of raising the Dam and additional plant		00.00	"
Total Capital cost ...		1.50	

For a total capacity of 16.5 M.G.D. max adequate for population of 8 lakhs at 20 gallons per head per day.

V Narasimhaiya
4.9.46.

Protected water was supplied to Bangalore for the first time in 1896 from Hesserghatta Lake. The scheme was designed to meet the requirements for a period of 20 years at 12½ gallons per head per day. The inadequacy of supplies was, however, felt even from 1907. In 1926, the tank became completely dry on account of failure of rains and water supply to Bangalore had to be arranged for by resorting to emergent measures. The Telemallappa Chetty Tank was utilised for this purpose and kept on up to 1933 in addition to the Hesserghatta Lake.

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In view, however, of the ever increasing demands for water and the limitation of supplies from the new scheme also, the Hesserghatta Lake, which had been released for irrigation, was again pressed into service from 1938.

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The capacity of Chamaraj Sagar New is 7 M.G.D (Million gallons per day)

The supply from Hesserghatta Lake is 1.3 M.G.D. as 1.2 M.G.D. is drawn away by the Military.

In effect, the present total capacity from Hesserghatta and Chamaraj Sagar is 8.3 M.G.D. With the completion of sanctioned works now in progress, viz., duplication of the main, etc., the capacity by the end of 1947 would be (10+1.3) or 11.3 M.G.D.

The water works were designed for a per capita consumption of 20 gallons per day. On account of the rapid expansion of the city, this standard has never been reached. On the o

hand, the per capita consumption has gone down from about 16.0 gallons (1933-37) to 12.5 gallons per day in the City. So far as the C. & M. Station is concerned, it is less. The minimum standard of a satisfactory supply of water is 30 gallons per day inclusive of what may be required for flush latrines.

As per the trend of rise in population it is expected that the increase per decinnium would be about 50%, so that by 19(the population is expected to reach over 8 lakhs. At 20 gall per day the total demand for water will be 16 M.G.D. and at 3(24 M.G.D.

It is proposed to raise the Dam at Chamaraj Sagar by 10.1 and also instal additional plant to bring up the capacity from 10 M.G.D. to 15 M.G.D. With this draw the reservoir can only hold for 2½ continuous bad years. It is risky to expect any further draw, judged from the experience of the behaviour of t reservoir for the last 13 years.

It will thus be seen that for further expansion beyond 19 it will be necessary to go in for additional sources of supply This has been under intensive investigation for the last two years and the Cauvery River is found to be the only resort for the purpose.

The scheme has been worked out in full detail. It is proposed to draw water from the Shimsha River normally and in certain months of bad years this storage across the Shimsha is to be supplemented by means of a main from Sivasamudram Anicut up to this point.

The length of the main from Shimsha Anicut up to Bangalor would be 50 miles and the pumping would be arranged in three stages, limiting the total head at each stage to not more than 500 feet. The stations would be at Shimsha Anicut, Channapat and Devagiri near Kumbalgod. The main would run more or less

necessary works for filtration, etc., the total cost of the scheme is expected to be about Rs. 3.5 crores.

---

1) Cost of C.I. Main, 42": 100,000 tons at Rs.240 per ton.	...	2.40
2) Plant to be imported from abroad, such as pumps, valves.	...	0.40
3) Labour charges & other works	...	0.70
Total	...	3.50

The cost of water is estimated to be As.9.5 to As. 1000 gallons against As. 8 at present.

The time required for completion of the scheme is a least 10 years and additional quantities of water would available only after the whole scheme is completed.

M. Narasimhan
Chief Engineer for Irrigation.
4.9.4

The Bangalore City Municipality has been paying a ump sum of Rs. 4 lakhs for 3 million gallons x 365 days nd for all quantities drawn above this limit it is paying at As.7¼ per 1000 gallons, ~~as per Government Order No.~~ dated

The receipts to the Municipality are derived from

(i) Water tax at 4½% of rental value - Rs. 2,58,000

(ii) Excess water charges at Re.1/ 1000 gallons over and above free allowances of 3000 gals. minimum and 10,000 gals. max. at 100 gals. per rupee of rental value per year and free allowance for flush of 750 gals. for one flush per month to 1500 gals. per month for 2 flushes. Rs. 2,00,000

(iii) Non-domestic connections, such as hotels, trades, etc., at Re.1 per 1000 gals. of water drawn. Rs. 60,000

(iv) Government buildings & Institutions at As.8 per 1000 gals. for all water drawn. Rs. 4,00,000

The total receipts come to about Rs. 5½ lakhs against the demand of about Rs. 6½ lakhs for 1945-46.

II. The C. & M. Station are paying under an Agreement With Government on a sliding scale of As.7.65 to 7.38 per 1000 gallons. As per informal understanding reached in the recent conference, the rates are to be fixed as per actual costs. For the year 1945-46 it has worked out to As.8.1 pe 1000 gallons.

In the C. & M. Station the water tax is 6% of the renta value and minimum and maximum free allowances are 2500 and 5000 gallons, and excess collected at As.12 to Rel per 1000 gallons.

III. If the actual working rate of As.8.1 is made applicable to the Bangalore City Municipality, they will be liable to a payment of Rs.8,86,000 for the year 1945-46.

The capital cost up to 1945-46	-	1,10	lakhs
Cost of sanctioned works ..		,20	"
		1,30	"
Probable cost of raising the Dam and additional plant		00,20	"
Total Capital cost ...		1,50	

For a total capacity of 16.5 M.G.D. ~~per~~ adequate population of 8 lakhs at 20 gallons per head per day

M Narasimha
4.9.

Appendix F. G.—1]

SUBJECT..... Scheme for future Water Supply
to Bangalore from the Cauvery R.

Section

File No.

Serial No.

Diary No. of letter replied to.....

Do. Letter No. P.W. 1445-51.

To

1) The Chief Engineer for
2) The Chairman, Ba
City Municip
Improvem
3) The President, Board.
Bangal
Municipal Co

General and Revenue Secretariat

( )

the 194

V. Narasimha Rao, Esq. BA. LLB.

V. Siva Shankar, Esq. BA. LLB.

Date of issue..... 3.9.46.

Signed by..... K.D.J.

Dear Sir,

I am directed to
you that the Dewan desi
to hold a Conference
to have a Conference with
Minister for Public Works,
Chief Engineer for Irrigat
the Chairman, City Improv
Trust Board and the Presi
Bangalore City Municip
Council in the Dewan's

at 11·15 A.M. on Thursday the 5th instant, to Consider the adequacy of the Water Supply System for Bangalore City in the light of possible future expansion of the City and the growth in its population.

I request you to be so good as to make it convenient to attend the Conference.

Appendix F. G.—1]

SUBJECT A Scheme for future Bangalore Supply from the Cauvery Valley.

Section WS
File No. 9-46
Serial No. 2

Diary No. of letter replied to.....

No. PW. 3399.

To

The Chief Engineer for Irrn.

General and Revenue Secretariat

( )

the *194* .

Date of issue 29.11.46

Signed by Mr. Krishnaraju

Sir,

With reference to your letter No. 1102/E dated 3.8.1946 and the discussions held in the Dewan's Chambers on 5.9.1946 on the above subject, I am directed to state that Government consider that it is necessary that the execution of the works now sanctioned should be speeded up. When those works are completed, as expected, by the end of 1947, there would be a maximum

List of enclosures.....

Copied by.....

Examined by.....

supply of 10 million gallons per day, which
for the anticipated increased population of
8 lakhs. This is wrong. in suffic
anticipa
in the pop

2. I am therefore to request you that the
estimates for further improvements
raise the Water Supply to 15 million
gallons may kindly be expedited and submitted
to Government. In the meantime, the scheme
obtaining supplies from the Cauvery Waters may be exam
& proposals submitted for the orders of Govt.

KW 25/11/46.
Secy, PWD.

2 ...

13/11.

14/11

WD
13/11/WB

7516-48-1

GOVERNMENT OF MYSORE

P. W. SECRETA 58 1813

OFFICE OF
The Chief Engineer for Irrig
in Mysore, Bangalore.

Date 16.3.49

The Secretary to Government,
P.W. Department, Bangalore.

SECRETARY TO GOVERNMENT Date 17/3 MPS

17.3.49

Tenders for the supply of Rapid Gravity Filters floculators and clarifiers required for (1) the duplx development of Chamarajsagar and Water Works station to the full capacity of 15 to 16 M.G.D. and (2) the long Range Improvement of water supply scheme to Mysore City.

I write to inform you that in connection with the development of Chamarajasagar and Water Works station to the full capacity of 15 to 16 M.G.D. (vide this office No. 718/S dated 22-9-1947) a detailed estimate amounting to s 36.5 lakhs received from the Executive Engineer, Water Suppl Division and scrutinised and corrected in this office to Rs 37 lakhs has been got verified by the Auditor, P.W.D. with certain observations. This estimate was pending disposal in this office for want of plans to accompany the estimate. The are since received from Executive Engineer and further action will be taken to submit the estimate to Government for sanction and allotment of funds under 39 Industrial and Other Works - 14 Chamarajasagar and Water Works.

The above mentioned estimate contains provision of Rs 2,65,000/- and Rs 3,00,000/- for 5 filters and 3 floculato

In connection with the long Range Improvement of water supply scheme to Mysore a scheme for Rs 52 lakhs has bee administratively sanctioned in G.O. No. P.W. 1704-10/W.S.12-4 dated 6-8-1947. A detailed estimate amounting to Rs 55,09,000 for the work got up and forwarded to the Auditor was returned by him with certain observations. This estimate has been forwarded to the Executive Engineer, Water Supply Division, f getting it ~~sanctioned~~ scrutinised by the Standing Consulting Committee fo Irrigation and Other Works. Further action will be taken to submit the estimate to Government for technical sanction on i receipt from the Executive Engineer. The source of meeting the cost of this work is yet under consideration of Governmen as the Mysore City Municipality have pleaded inability to meet any portion of the cost.

The above mentioned estimate contains provisions of Rs 3,00,000/- and Rs 2,34,000/- for construction of 5 filters and 3 floculators respectively.

As filters floculators and clarifiers are required for the water works both at Chamarajasagar and Mysore, quotations fo the supply of these materials were called for through the S.P.C. The several quotations received in response thereto and submitte by the Executive Engineer, Water Supply Division are herewith forwarded together with the comparative statement for favour of perusal by Government. The requirement of the materials both at Chamarajasagar and Mysore are as per details noted below:

Development of Chamarajasagar and Water Works -Floculato

As can be seen from the comparative statement, 6 tenders are received for supplying floculators and clarifiers. Of these 6 tenders, the tender of Messrs. Dorr Oliver Company Ltd., Londc is the lowest. Against the provision of 3 units in the estimate 2 units are recommended. The cost of 2 units as per quotation comes to Rs 1,07,963/- F.O.R. Bombay. Conveyance charges from Bombay to the work spot and erection charges will cost Rs 20,000/ The total cost therefore will be Rs 1,27,963/- or Rs 1,28,000/- in round figures. Including the cost of construction as per details noted in the statement submitted by the Executive Engineer (enclosed) the total cost will be Rs 3,29,000/- (Rs20100C Rs 128000) against the provision of Rs 3,00,000 made in the estima

Filters:- Of the 7 tenders for the supply of filters the tender of Messrs. Jewell Filters Company is the lowest as can be seen from the comparative statement. The cost of 5 filte will be Rs 2,41,250/- against the provision of Rs 2,65,000/- included in the estimate.

Long Range Improvement of Water Supply at Mysore: Flocu

The estimate provides a sum of Rs 2,34,000/- for the construction 3 floculators. The first stage work being for 7 M.G.D. it is desirable to construct 2 floculators only for the present. The cost of 2 floculators will be Rs 1,28,000/- and including the construction charges of Rs 2,01,000/- as per calculation made for the floculators at Chamarajasagar, the total cost comes to Rs 3,29,000/- against the provision of Rs 2,34,000/- made in the estimate, the excess over the provision being Rs 95,000/- (Rs 329(Rs 234000).

Filters:- As per the lowest quotation of Messrs. Jewell Filters Company Ltd., the cost of 6 filters will be Rs 2,77,500/-. As only 5 filters are required for Mysore Water Works, the cost of 5 filters at the rates quoted above will be

will be Rs 2,31,250/-. The cost of construction of 5 filters at the rate worked out for the filters at Chamarajasagar will be Rs 88,000/-. The total cost will be Rs 3,19,250/- (Rs 2,31,25 Rs 88,000) against the provision of Rs 3,00,000/- made in the estimate excess being Rs 19,250/-(Rs 3,19,250 - 3,00,000).

It can be seen from para 4 supra that for the water works both at Chamarajasagar and at Mysore, 4 floculato and 10 filters are required. For the supply of floculators orders have to be placed with M/s. Dorr Oliver Company Ltd., London. For the supply of filters orders have to be placed with M/s. Jewell Filters Co., Ltd. I request you kindly to communicate sanction of Government to the purchase of the materials referred to above through the S.P.C. The tenders enclosed may also be forwarded direct, to avoid delay, to the Secretary, S.P.C. for taking further action. Necessary increased provisions on the basis of the tendered rates will be made in both the estimates when submitting the same to Government for technical sanction.

Yours faithfully,

Chief Engineer for Irrigation.

Further note on Tenders for Filters and Floculators.

Floculators at Chamarajasagara.

Provision in the estimate for construction 3 units.	Rs.	3,00,000
Cost of equipment item 4,5,6 and 7.	Rs.	99,000
Cost of construction.	Rs.	2,01,0(

In the project 3 units of 60 feet diameter are propos as the firm has recommended 2 units of 110 feet diameter. cost of construction of 2 units will be almost the same a of 3 proposed. Hence, the cost of construction is retai

Cost of 2 units of Floculators as per details furnished in the report.	Rs.	1,28,0(
Total Cost.	Rs.	3,29,00

Hence, there will be an excess of Rs.29,000 which may provided for in the revised estimate.

Filters at Mysore.

Equipment for 6 filters at Rs.2,77,500/- for 5 units would be	Rs.	2,31,55
Cost of construction for 5 Filters at the rate worked out for Bangalore	Rs.	88,00
Total	Rs.	3,19,25
Provision in the Estimate.	Rs.	3,00,00
Excess.	Rs.	19,25(

Floculators at Mysore.

Cost of equipment as per Tender (1,53,187+10,809+30,000)= 1,93,996 or say	Rs.	1,94,00(
Cost of construction as per details for Bangalore $\frac{3 \times 2,01,000}{2}$	Rs.	3,01,50(
	Rs.	4,95,50(
Provision in the Estimate.is	Rs.	2,34,00(
Excess will be	Rs.	2,61,50(

For Bangalore up to 9 million gallons, the Firm has a 2 units and for Mysore for 14 million gallons, the Firm ha advised 3 units. According the present proposals the Fi Stage Work is only for 7 million gallons. Hence, it is for consideration. Why only 2 units may not be adopted f present. If this is accepted the cost of equipment and c

construction for 2 units as at Bangalore will be Rs.3,29,000 against the provision of Rs.2,34,000. The excess will be Rs.95,000/- which will have to be provided for.

Executive Engineer,
Water Supply Division.

No. 8261

Dated 18/4/49

To

The Chief Engineer for Irrn.

Sir,

Subject: Tenders for the supply of Rapid Gravity Filters and Flocculators and Clarifiers required for Bangalore and Mysore Water Works.

With reference to your letter No. 1912/S dated 16.3.1949 on the above subject, I am directed to state that it is perhaps premature to consider the proposal for purchasing the equipment for Mysore City water supply as the equipment may have to be installed at K.R.Sagar in accordance with the present scheme for which estimates are yet to be sanctioned. Unless all the works are started these filters cannot be installed ~~and when they are obtained with the definite purpose,~~ I therefore cannot

2. In the above circumstances, am to request You to be so good as to intimate if the equipment required for only the Bangalore Water Supply may not be ordered now.

3. The tenders and Alternatives received are returned herewith.

Yours ...
Asst. Engr. — IIPS —
7.4.49
Exec. Engr. (P.W.D.)

1/4.
3/4.

GOVERNMENT OF MYSORE

P. W. SECRETARIAT
7845
OFFICE OF 10/6/49

The Chief Engineer for Irrigation
in Mysore, Bangalore. 1331

Date 2-6-49

SECRETARY TO GOVERNMENT

The Secretary to Government,
P.W. Department, Bangalore.

3/6/49

Tenders for the supply of Rapid Gravity filters and floculators and clarifiers required for Bangalore and Mysore water works.

With reference to your letter No. P.W. 8261 dated 13-4-49 requesting to intimate if the equipment required for only the Bangalore water supply may not be ordered as the estimate for Mysore City water supply is not yet sanctioned etc., I write to forward herewith for the information of Government a copy of letter No. 1562 dated 12-5-1949 received from the Executive Engineer Water Supply Division explaining the necessity for placing orders for the equipment required for Mysore water works also.

As the firms require 10 to 20 months for the earliest delivery of the equipment as stated in the Executive Engineer's letter it is desirable to place orders for the equipment required for both the works.

It may also be mentioned in this connection that the estimate for both the works referred to above are under scrutiny and they will be submitted to Government shortly.

Yours faithfully,

Chief Engineer for Irrigation.

9/12

Letter No. 1562 dated 12-5-49 from the Executive Engineer, Water Supply Division to the Chief Engineer for Irrigation, Bangalore.

Tenders for the supply of filters etc.

With reference to your No. 10813/I dated 29-4-1949 regarding the above, I wish to state that the construction of floculators and filters at Chamarajasagara is very urgent and has to be taken up immediately as for Mysore, the present supply is found to be insufficient and there are many complaints. To meet the growing demands, sanction to the estimate for supplying water from Krishnarajasagara is also urgent. Further, the time of delivery of the equipment is also to be considered. The Firms require 10 to 20 months for the earliest delivery and as such it is desirable that orders are placed for the equipment required for both the works.

Copy

Chief Engineer for Irrigation.

9/10

Letter No.162 dated 9-8-1949 from the Executive Engineer, Water Supply Division, Bangalore, to the Chief Engineer for Irrigation, Bangalore.

P. E. SECRETARIAT.

Rapid Gravity Filters and Flocculators and Clarifiers.

With reference to your No.802/I dated 1-8-194 I write to state that a detail report will be submitted shortly on the Scheme prepared by Sri H. V. Visveswariah for Mysore Water Supply. The equipment required for improvements to Chamaraja Sagara has to be ordered for immediately. Hence, I submit that tenders for the supply of equipment for Chamrajsagara may kindly be sanctioned immediately.

'Copy'

M. V. Lakshmana Rao

Chief Engineer for Irrigation.

GOVERNMENT OF MYSORE

7936

P25

OFFICE OF
The Chief Engineer for Irrigation
in Mysore, Bangalore.

1363

Date 2-6-49

The Secretary to Government,
Public Works Department, Bangalore.

SECRETARY TO GOVERNMENT
Date 2/6

Development of Chamarajasagar Station to the full capacity of 15 to 16 M.G.D.

3/6/49

With reference to correspondence ending with this office letter No. 1912/S dated 16-3-1949 submitting for the orders of Government the tenders for the supply of Rapid gravity filters flocculators and clarifiers required in connection with the above work, I write to forward herewith for favour of communicating sanction of Government under 39 Industrial and other works -14 Chamarajasagar and water works an estimate amounting to Rs 39.00 lakhs as for the above work.

The report and plans accompanying the extimate explain the necessity for the work and the prowision made therein. The entire estimate and proposals have been approved by the Standing Technical Committee at their meeting on 21-8-47.

The estimate has been scrutinised by the Audit Officer, P.W.D. with certain observations. A copy of the Auditor's letter No. 191/WI dated 22-12-1947 addressed to this office in this connection together with a copy of the letter No. 1159 dated 5-3-48 received from the Executive Engineer, Water Supply Division furnishing replies to the observations of the Auditor is hereewith enclosed for favour of perusal by Government.

In the abstract estimate for this work herewith forwarded a lumpsum provision of Rs 2.00 lakhs is made for the construction of a reservoir of 2 million gallons capacity at Chethamaranahalli as requested by the Executive Engineer, Water Supply Division in his letter No. 1169 dated 20-3-1949.

There is no grant for this work during the current year. This work will be included in the programme of

of works under 39 Inddstrial and other works - 14 Chamarajasagar and water works for the year 1949-50 providing the necessary grant required for the wor-k during that year.

I request you kindly to communicate early sanction of Government to the estimate.

Your s faithfully,

Chief Engineer for Irrigation.

9/11

Dated 22-12-1947.

Estimate for Rs 36,60,000 for development of C.R. Sagar Water Works plant to the full capacity of 15 to 16 M.G.D. (Million Gallons per day) received with Chief Engineer's No. 2720/I dated 16-11-1947.

Returned after scrutiny to the Chief Engineer for Irrigatic in Mysore, Bangalore, with the following observations:-

1. This estimate has to be got sanctioned by Government in t Financial Department, vide para 92 of M.P.W.A.C.

2. The capital expenditure on the existing works to end of 1945-46 as shown in page 7 of the General Report accompanying the estimate differs from those shown in the C & R Accounts sent with Executive Engineer's No. 35 dated 15-1-1947 and also the printed Finance and Revenue Accounts (vide below). These differences may b got reconciled.

	As shown in the report.	As per Divisional & C.R. accounts.	As per print F & R Accou
C.R. Sagara old and new.			
Capital expenditure to end of 1945-46.	1,10,73,797	1,02,63,569	1,00,15,15(
gross revenue for 13 years to end of 1945-46.	1,37,95,221	1,34,05,440	1,10,16,880

Detailed estimates have not been prepared for the followi items:

Item II	constructin quarters etc. 1st floor of the Inspection Bungalow	21,50
	Temporary structures	9,00
Item 16	Establishment 5%	1,70,08
" 17	Tools & Plant (2½%)	85,04

" 13 to 15 For acquisition of lands tarrin colony roads and tarring Bangalore Magadi road aggregating 3,73,700 (a lumpsum cost is worked out without details of quantities and sub heads).

A sum of Rs 85,042 has been provided towards the cost of tools and plant required (at 2½%) under item 17 of the Project estir A sum of Rs 10,514 is also included under "Item 1 Dam works" for purchase of tools and plant, lorries, cement mixers and other materi The provis ion made under item 1 Dam works has to be deleted.

It is not stated how the existing buildings now used for purposes of the Middle School, post Office, Post Masters Qua rte rs

and the Co-operative Society are proposed to be utilised as it is proposed to construct new buildings for the purpose. The propriety of providing for the cost of the school building and the post office in the project estimate is not clear as the cost of the school buildings is a proper debit to the head "26 Education" and buildings for the post office and the Co-operative Societies have to be provided by the Post department and the society which are earning a revenue.

Whether the existing building is found to be inadequate for the inspecting officers has to be explained and information regarding the average revenue now earned by the Inspection Bungalo so far and the increased revenue that can be expected by the additio capital expenditure may also be furnished.

The indirect charges noted below have not been included in the figures furnished in page 7 of the report (vide paras 722-3 of M.P.W.A.C.) and may also be reported to Government.

a) Capitalised value of abatement of land revenue.

b) Leave and pension allowances: audit: accounts and Directi

Letter No. 1159 dated 25-3-48 from the Executive Engineer, Water Supply Division to the Chief Engineer for Irrigation, Bangalo

---

Development of Chamarajasagar Water Works Plant to the full capacity of 15 to 16 million gallons per day.

With reference to your No. 3865 dated 5-1-1948, I have the honou

o resubmit the estimate for Rs 37 lakhs as corrected now and to repor

Noted.

Differences shown between the figures furnished in the report, capital and revenue accounts and finan and resource accounts -

Capital Expenditure to end of 1945-46.

Figure shown in report	1,10,73,797
Figures shown in capital & revenue accounts	1,02,63,569
Difference	8,10,228

The difference represents depreciated value of old Chamarajasagar Works not included in the Capital a Revenue accounts. This has to be taken into accou while calculating the capital cost as these works kept as a standby though they do not directly yiel any revenue.

Gross Revenue for 13 years to end of 1945-46.

Figures shown in report	1,37,95,221
Figures shown in capital & Revenue accounts	1,34,05,440
Difference	3,89,781

The difference represents the value of cheques rec and realised from Civil & Military Station Municip ty within the year 1945-46 but intimation of reali tion was received in this office during 1946-47. this portion of revenue relates to 1945-46 it has be taken for purposes of the report during that year alone irrespective of late intimation of realisati

The difference between the figures shown in th report and in Finance and Resource accounts are not verifiable in this office as no finance and resou accounts are being received in this office so far. The details for Rs 1,01,15,150/- & Rs 1,10,16,930/- are not known to this office for enabling us to find out the cause for the difference. As sufficient details are furnished in the capital and revenue accounts, the difference may well be trace in the Audit Office itself.

Detailed estimates cannot be worked out now. Lump provisions have been made to obtain administrativ sanction to the estimates. Details will be furn before execution.

The amount of Rs 10,514/- provided for the Tools a

and Plant under item No. 1 Dam works has been deleted and this sum added on to the estimat of Rs 85,042/- under Tools and Plant.

The existing buildin for the Middle School is very small and the dispensary has no ward a all and wards are found to be of absolute necessity. The Middle School buildings, whic adjacent to the P.W.D. Dispensary, will be mad use of as wards attached to the dispensary.

One of the temporary subordinates quarters being used as a combined Post Office and Post Master's quarters. It is very small and is of temporary construction. The old building will used as a quarter for one of the Helpers. The Post Office at this place is maintained solel for the water works and the staff attached th it is not earnin any profit. As such we have provide the building, otherwise the postal dep ment may wind up the Post Office here.

The Co-operative Society has no buildin at all. It is located in a small room of one of the temporary quarters which is likely to come down sooner or later. Hence a new buildin is necessary.

The Co-operative Society is run by the wat works staff for the benefit of the staff/work in the isolated jungle area. It is not makin any profit worth the name. Hence a building f of rent is necessary and may remain. At time it has worked under a loss.

The School is maintained solely for the benefit of the children of the Water Works Employees. As such the water Supply Department may have t the entire cost.

Inspection Bungalow:-

The existin building is quite inadequate for t Inspectin Officers. The avera e revenue earne by the Inspection Bun alow for the last one ye is about Rs 50/- per month. The increased reve may be abou t Rs 30/- per month by the use of e x capital expenditure.

(a) Indirect charges:- Para 722-3 of M.P.W.A.Co Capitalised value of the abatement of land reve 300, acres of dry lands may have to be acquired. Assuming the average dry assessment at Rs 1-8-0 acre, the capitalised value of abatement of lan revenue will be: 300 x Re. 1-8-0 x 25 years Rs This has been added on to the Land Acquisition mate.

(b) 1. Leave and Pension Allowances:

14% on the gross charges of establishment (v Rs 1,70,085/- Rs 23,802).

2. Audit, accounts and direction charges:-

1% on the ross charges of establishment viz. Rs 1,70,085/- equal to Rs 1,701/-.

Thus the total amount of Rs 23,802/- plus Rs 1,701 or Rs 25,503 has been included under the item Establishment.

... enclosures received with you-r No. are herewith esubmitted. Very e arly sanction o f overnment to the estimate may indly be got .

(Copy)

Chief Engineer for Irrigation.

8/16

Appendix F. G.—1]

SUBJECT Rapid gravity filters and flocculators and clarifiers for Mysore city Water Sup

Section WS 24/10/49.

File No. 11-68

Serial No. 8

Diary No. of letter replied to.....

No.

To

The Chief Engineer for Irrigation

General and Revenue Secretariat

( )

the 19 .

Sir,

Date of issue.....

With reference to your ~~it appears that~~ the President of Mysore City Municipal Council and the Executive Engineer for Water Supply Division had discussed the Minister for Home on 5.9.1 at Mysore, ~~and discussed~~ the question of replacing the old pipe lines by new and bigger pipe lines. I am therefore to request that proposals ~~for the same~~ may kindly be submitted for orders of Govt. immediately in consultation with the President Mysore City Municipal Council.

Signed by.....

List of enclosures.....

Copied by.....

Examined by.....

Sec'y to Govt. P.W.D.

WD 06171—GPB—30,000—4-6-49

GOVERNMENT OF MYSORE

3569
Dt. 20-12-49

OFFICE OF

The Chief Engineer for Irrigation
in Mysore, Bangalore.

Date

SECRETARY TO GOVERNMENT
Date 17/12
PUBLIC WORKS & ELEC DEPTS.

To

The Secretary to Government,
Public Works Department, Bangalore.

Sir,

Rapid Gravity Filters Floculators and Clarifiers for Mysore City Water Supply.

With reference to your letter No.P.W.3692/WS.11-49-8 dated 24-10-1949 requesting to submit for the orders of Government, proposal for replacing the old pipe line in Mysore City by new and bigger pipes, I write to forward herewith, for the information of Government, a copy of the note on the subject, submitted by the Executive Engineer, Water Supply Division, on the lines of instructions issued by the Home Minister during his discussion with the President, City Municipality, Mysore, Commissioner, City Municipal Council, Mysore and the Executive Engineer Water Supply Division, Bangalore, at Mysore. A copy of the note has been forwarded to the Municipal Commissioner, City Municipality, Mysore, by the Executive Engineer, Water Supply Division, with his No.762 dated 28-9-1949 for taking needful action.

2. As can be seen from the note enclosed it is proposed to meter the connections, replace the existing distribution lines and lay certain mains at a total cost of Rs.11½ lakhs in all to be met by Govt. and the Municipality in equal proportion.

3. The President, City Municipal Council, is being requested to furnish his opinion on the note. A further report will be submitted to Government on receipt of reply from him.

Yours faithfully,
Chief Engineer for Irrigation.

1) Mysore City is getting its water supply from Belagola where raw water from the Channel is pumped to Filters at Mysore through a distance of 7 miles. The pumping equipment consists of 2 pumps of 2 million gallons capacity and one of 3 million gallons capacity. The quantity pumped daily by working one of 2 million gallons capacity and the other 3 million gallons varies between 4.6 to 4.8 million gallons. Water is pumped through 2 C.I. Mains of 14" and 16". Water is filtered at Mysore and then issued to City. The filtering capacity of theplant in 3.4 million gallons daily. The excess quantity over this is issued after sedimentation. Full quantity of water is chlorinated before issue.

2) Various sizes of C.I. Mains are laid and the distribution system consists mostly $1\frac{1}{2}$" to 2" G.I.Pipes. The population of City is about $2\frac{1}{4}$ lakhs and the quantity now issued, works out to an average of 23 gallons per head. As the distribution is through long length of small pipes there is equitable distribution and there are houses which get water continuously and other with no supply at all. There are in all 8850 connections out of which only about 1500 have been metered.

3) As a first step for improvement, a project costing Rs.6.64 lakhs was prepared providing a spare pump of 3 M.G. capacity, construction of a 2 M.G. capacity Storeage Tanks, construction of Zonal Tanks to be filled up during nights, construction of additional 3 Filters of $1\frac{1}{2}$ M.G. capacity and fixing of 300 Meters. All the works contemplated are nearing completion except construction of Filters which was put off in view of the long range improvements thought of.

4) A project costing Rs.55 lakhs was prepared for pumping 7 M.Gl. of filtered water daily through a 24" C.I. Main from Krishnarajsagar, where the full complete plant was proposed to be installed. This project was scrutinised by the Consultative Committee and was submitted for sanction. It was ordered that the estimate may be re-cast providing the rates prevailing now. A special Sub Division has been formed and the estimate has been revised to Rs.80 lakhs. Orders were also placed for the 24" C.I. pipes and most of it has been received. The question of how the project has to be financed is still pending before Government.

5) During recent discussion with the Minister by the President, Municipal Commissioner and Executive Engineer, Minister was pleased to state that under the present fina condition it would not be possible for the Government to finance the scheme and as such a separate programme may b drawn up for equitable distribution of the water as the present average for capital is too high when compared wit Bangalore where continuous supply is given and complaints few.

6) As a first step, night supply which was taking awa nearly 1.2 to 1.8 million gallons daily with the idea of filling up Tanks of a total capacity of 80,000 gallons bu which never received more than 30,000 gallons has been gi up thus reducing wastage. The full quantity is issued d between 3 A.M. to 7 P.M. This has resulted in tangible improvement and most of the consumers have been assur a minimum supply of 3 hours and with improvement of distr tion of system and control of wastage by metering, it wil possible to give supply for 6 to 8 hours at least. With end in view the following proposals are drawn up.

7) With the erection of new pump received, the City c have an assured supply of 4.6 to 4.8 million gallons and the completion of construction of hard-wash filters the c will have complete filtered water. These two works are vided for under the estimate already sanctioned for 6.64 and these will be arranged to be completed early. Then the re-modelling of distribution system. On a survey of made recently it is seen that the City has nearly 69,00of $1\frac{1}{2}$" to 2" G.I. Pipes laid as Sub Mains. These have to b removed and minimum size of 3" laid for satisfactory distr

8) The laying of the submain will cost about $2\frac{1}{2}$ lakhs rupees. This work has to be taken up immediately and co within 3 years. The Government will have to be approach arrange for a supply of nearly 24,000 ft. of 3" C.I. Pipe Bhadravati annually.

(10) There are at present two mains from the reservoir one of 16" and another of 10". These run up to Railway Station and from there branched off to feed different mohallas. In addition recently a 9" main has been laid from the Filters feeding the Military area. With the distribution system improved the two mains cannot meet the full demand and as such it is now proposed to lay a 16" main from 2 M.G. storage ~~66~~ circle near Modern Hindu Hotel passing through the under-bridge and from there branch off to two of 12" main. The first one will pass on the Viceroy road up to Maharaja's High School and then passing behind Cosmopolitan Club will reach the circle near the College Hostel. From there onwards a 8" main will be laid up to the new over-head tank constructed at Krishna Murthy Puram. A branch of 6" will be proposed from the Circle near the Hostel to feed Sarasvathy Puram.

11) The other 12 " main will run straight up to Nurses quarters then run in Narayana Sastry's road up to Siddappa Square where it wil be linked on to the existing 8" main. With the addition of these two mains the areas situated in Krishnarajendra Mohallas, Chamarajend Mohalla and parts of Devaraj Mohalla, will be well served. The cost of the mains will amount to Rs.4,00,000/-. The existing mains will b enough to command the rest of the City.

12) More than remodelling the distribution systems and laying of main is the work of prevention of waste, which can only be done by metering all the connection. As it is seen there are nearly 8,850 connections out of which only about 1,500 are metered. It is very essential that all the connections ~~+~~ one metered and this can be done in 2 to 3 years time. The cost of metering the connection will be about Rs.5,00,000/-.

13 With the completion of the above mentioned works it should be possible to have equitable distribution of water and with the average per capital of 23 gallons per day it may be possible to have continuo supply as with average consumption of below 15 gallons the supply is continuous.

14) Regarding financing of the proposed works the cos have to be met equally both by the Government and the Municipality as has been done in the case of 6.64 lakhs scheme and some other improvement Scheme at Bangalore. Tl total cost ofthese works, work out to Rs.11½ lakhs. If proposals are approved then detail estimates for the work mentioned will be prepared.

'Copy'

Chief Engineer for Irrigation.

14/12

8516 ex4
W-2

OFFICE OF THE MUNICIPAL COMMISSIONER,
CITY MUNICIPALITY,

Mysore, Dated 5-1-1950

P. W. SECRETARIAT
4037
Date 11-1-50

694

THE MUNICIPAL COMMISSIONER,
CITY MUNICIPALITY,
MYSORE.

SECRETARY TO GOVERNMENT
Date 9/1/50
PUBLIC WORKS DEPTS.

The Secretary to the Government
of His Highness the Maharaja of Mysore,
P.W.Department,
Bangalore.
(Through the President)

Sir,

Subject:- Improvement of water-supply in Mysore City.

With reference to letter No.964/5 dated 16-12-1949 addressed by the Chief Engineer for Irrigation in Mysore to you on the above subject, I have the honour to enclose a copy of the letter addressed to the Chief Engineer for Irrigation in Mysore together with copies of the letters and the resolutions of the Council referred to therein, regarding the preparation of detailed estimates.

Further report from the chief engineer will be awaited

13/1

Yours faithfully,

Municipal Commissioner.

12/1/50

Forwarded with compliments.

~~He Returned~~ The Chief Engineer may perhaps like to be explicate the proposals.

Minister Home) 17.1.50

President.

5.1.1950.

OFFICE OF THE HOME MINISTER.
No. 1211/2
Date 18/1/50

A draft is put up

snr.

29/1

Bnc 19-1-50

Dated 7/2/50

The Chief Engineer of Mysore

Bnc 31.1.

OFFICE OF THE MUNICIPAL COMMISSIONER,
CITY MUNICIPALITY,

Mysore, Dated 5-1-50

From

THE MUNICIPAL COMMISSIONER,
CITY MUNICIPALITY,
MYSORE.

To

The Chief Engineer for Irrigation in Mysore,
Bangalore.

Sir,

Subject:- Improvement of water-supply in Mysore Ci

With reference to your memo No.965/5 dated 16-12-1949 on the above subject, I have the honour to state that Municipal Council have already approved of the lines of improvement of water-supply indicated in letter No.762 dated 28-9-1949 of the Executive Engineer, Water Supply Division, Bangalore. A copy of the note with my remarks thereon and a copy of the Municipal Council resolution No.433/29-10-1949 are enclosed herewith.

The Council have also approved of the proposals contained in your further communication No.1482 dated 2-12-1949 regarding the detailed estimates being prepared in the first instance in connection therewith and forwarded for their consideration.

I request you therefore kindly to take action for the necessary detailed estimates being forwarded for further action.

Yours faithfully,

(Sd) C. Narain Murthy

Municipal Commissioner.

)ceedings of the Ordinary Meeting of the Mysore
;y Municipal Council held on Friday the 23rd Dec
49 at 4-30 p.m. in the Municipal offices.

---

586. Managing Committee resolution No.295/16-12-4
ecommending approval to the note of the Executive
ngineer, Water Supply Division, regarding the
reparation of detailed estimates for improvement
f water supply in Mysore City (vide further
etter No.965/16-12-1949 addressed by the Chief
ngineer for Irrigation, Bangalore to the Secretar
o Government, P.W.D. received with the former's
emo dated 16-12-1949).

The note received from the Executive Engineer, Water Supply Division with his letter No.762 dated 26/28th September 1949 embodies the tentative proposals ~~of~~ which are the outcome of the discussion which the President and I have had with the Executive Engineer, after a careful examination of the water-supply position in Mysore City and the steps which are required to be taken immediately to ensure the fullest use of the available water to the citizens. The Hon'ble Home Minister has also been informally acquainted with the proposals.

These proposals are not in any way in conflict either with the Long Range Scheme for Rs.55 lakhs of the Short Range Scheme for Rs.6.64 lakhs, which have already been sanctioned by the Government. The estimate for the Long Range Scheme is now stated to have been revised to Rs.80 lakhs and even more, and it is not likely that the Long Range Scheme can be put into execution immediately. It is necessary to complete the Short Range Scheme as quickly as possible and also take immediate steps to improve the distribution system in the city. We have come to the conclusion that if we thus improve the distribution system we can provide about 6 to 8 hours' water-supply to all parts of the city with the existing supply of water. The work necessary to be taken up in this connection are:-

(1) The replacement of about 69,000 feet of 1½ to 2" sub-mains by 3" submains;

(2) The construction of additional filtering units at the Jewel Filters, as at present only a portion of the water that is now supplied in the City undergoes the process of filteration and the rest is not

filtered, but is only chlorinated.

(3) The laying of additional trunk mains as explained by the Executive Engineer in his note;

(4) The installation of meters to all the connections in the city.

All these works are estimated roughly to cost about Rs.11½ lakhs.

It is not clear from the Executive Engineer's note what portion of this cost is already included in the Short Range Scheme and the Long Range Schemes of improvement. For instance, I believe there is a provision in the Short Range Scheme already for the construction of filters and a provision in the Long Range Scheme for the improvement of the distribution system. The Executive Engineer will be requested to clarify this point and indicate clearly what items of work connected with the present proposal are already included in the Long Range and Short Range Schemes and to work out the net extra cost on account of the present proposals.

Another point for consideration is that 24" C.I. pipes have been received and placed along the road to K.R.Sagar in connection with the Long Range Scheme. I believe a part of this pipe line will coincide with the present water-supply main from Belagola. If the new pipes can be laid in place of the old ones, to the extent possible, along the present water-supply lines, there would be some improvement in the supply and, besides, the present 14" and 16" C.I. mains which bring water from Belagola to Mysore can be released and used for the new trunk mains, proposed to be laid inside the city, in order to improve the distribution. The Executive Engineer

will be requested to examine this point also and see to what extent the cost could be minimised.

I suggest that the note of the Executive Engineer may be placed before the next meeting of the Managing Committee for their consideration. In the meanwhile, the Executive Engineer may be requested to prepare detailed estimates for the immediate works to be undertaken indicating the net extra cost so that a definite resolution may be passed by the Council and send up to Government for sanction.

WD 06071—GPB—25,000—20-6-19

Serial No.

Note for circulation in Cou

Subject:- Development of Chamaraj Pumping Station to the full capa of 15 to 16 M.G.D.

A conference was held on 15. in the Dewan's Chambers when th Minister for Public Works, Chief En neer, President of Bangalore City Muni pality, and the Chairman of Banga city Improvement Trust Board w present ~~a discussion of the~~ to consi the adequacy of the water supp System for Bangalore city in l light of the possible future exp sion of the city and the growth its population. ~~And~~ One of the conclusions arrived at the con rence was to raise ~~the~~ dam ~~impou~~ by the Chamaraj Sagar ~~Station~~ by 10 feet so as to raise the supp of water in Bangalore from 12 M.G.D to 15 M.G.D. Accordi the Chief Engineer has forwarde a detailed estimate for Rs 39 la for the development of Chamar Sagar Station to the full capability of 15 to 16 M.G.D. T estimate includes the raising the dam at Thippagondanah by another 10 feet, providing

Serial No.

additional filters & pumps including the required buildings etc, laying Bangalore-Nagpadi road upto Chamaraj Sagar, the construction of a pure water tank and a storage reservoir. The estimate and proposals are stated to have been approved by the standing Technical Committee for Bangalore water supply. The cost of the works proposed to be met under "39 Scheme and other works - Chamaraj Sagar and other works"

2. The capital already invested on Chamaraj Sagar upto the end of 1948-49 is Rs 1, 37, 70, 175 and the total capital aggregates ~~to~~ Rs 1,76 71.000 inclusive of the proposed development at a cost of Rs 39 lakhs. The net revenue works out to Rs 7, 29, 108 per annum on the total capital and the percentage of return would be 4.126 % 4.126. If interest at 3% is also deducted, the Scheme, it is calculated, would yield a net profit of 1.126%. Since the rate of supply of water for both the Municipalities i.e Rs 6.29 for the city and Rs 7.57 for the civil

Serial No.

fixed about 15 years back are being continued, it is proposed to enhance the rate to As 12/- or at least As 10/- on all India basis in view of the increased revenue of the Corporation.

The financial Secy has remarked on the file as follows

" We can congratulate ourselves if the money can be had at 4%. So it is seen that the work is not profitable but protective in character unless the proposal of revising the ~~taxes~~ rate is put through when it may pay something. The starting of the work is to be cut/ our. The only trouble is to find the 34 lakhs. There is no money now available. I would suggest this being considered in Council and awarded such priority as may be deemed suitable among the works of all departments."

The Chief Minister and the Home Minister have ~~agreed to consider to put it~~ mentioned " Council meeting."

20/1/52

23/1/52

Secy to Govt P.W.D.

NOTE FOR CIRCULATION IN COUNCIL.

Development of Chamaraj Sagar Pumping Station to the full apacity of 15 to 16 M.G.D.

A conference was held on 5th September 1946 in the Dewan's hambers when the Minister for Public Works, Chief Engineer, resident of Bangalore City Municipality, and the Chairman of ngalore City Improvement Trust Board were present to consider t dequacy of the water supply system for Bangalore City in the lig f the possible future expansion of the City and the growth in it opulation. One of the conclusions arrived at the Conference w raise etc
o dam the Chamaraj Sagar by 10 feet so as to raise the supply of ater in Bangalore from 12 M.G.D. to 15 M.G.D. Accordingly the hief Engineer has forwarded a detailed estimate for Rs.39 Lakhs he development of Chamaraj Sagar Station to the full capacity o o 16 M.G.D. This estimate includes the raising of the dam at hippagondanahalli by another 10 feet, providing additional filte nd pumps including the required buildings etc., tarring Bangalor gadi road up to Chamaraj Sagar, the construction of a pure wate nk and a storate reservoir. The estimate and proposals are st o have been approved by the Standing Technical Committee for Ban ore Water Supply. The cost of the work is proposed to be met t 39 Industrial and other works - 14 Chamaraj Sagar and other work

2. The capital already invested on Chamaraj Sagar up to 31 1948-49 is Rs.1,87,70,175 and the total capital aggregates s.1,76,71,000 inclusive of the proposed development at a cost of s.39 lakhs. The net revenue works out to Rs.7,29,108 per annum he total capital and the perfentage of return would be 4.126. nterest at 3% is also deducted, the scheme, it is calculated, wo eld a net profit of 1.126%. Since the rate of supply of water oth the Municipalities i.e., Rs.6.39 for the City and Rs.7.5 fo vin Station fixed about 15 years back are being continued, it is roposed to enhance the rate to Rs.0-12-0 or at least Rs.0-10-0 or

e can congratulate ourselves if the money can be
ed at 4%. So it is seen that the work is not
rofitable but protective in character, unless th
roposal at the end of paragraph 39 is put throug
hen it may pay something.

he tarring of the road is to be cut out. The or
rouble is to find the 39 lakhs. There is no mor
ow available.

would suggest this being considered in Council
warded such priority as may be deemed suitable,
he works of all Departments."

he Chief Minister and the Home Minister have "i

eeting".

4037
P25

Appendix F G—1]

SUBJECT Improvement of water supply in Mysore city

Section PM 7379
File No. 7/2/50
Serial No.

Diary No. of letter replied to .....

No.

To The Chief Engineer Mysore

Sir,

With reference letter No 9644/S dated on the above subject am directed to ~~submission of~~ state, further the promised thereon may be expedited

Yours &c

General and Revenue Secretariat

( )

the 19 .

Date of issue.....

Signed by.....

ist of enclosures.....

opied by.....

Examined by.....

Bpc 31/1
28/1/50 Secy to P.W
28/1
28/1/50

WS 11-49-20.

OFFICE OF THE CHIEF ENGIN
of Mysore,
Dated, Bangalore, the 28th February 1950.

P. E. SECRETT:
S214
Date 2-3-50

3/9/S

To

The Secretary to Government,
Public Works Department,
Bangalore.

Sir,

SECRETARY TO GOVERNMENT
Date 1/3
PUBLIC WORKS & ELEC. DEPTS.

Subject:- Tenders for the supply of Rapid Gravity Filters floculators and Clarifiers required for Chamarajasagar Water Works.

With reference to correspondence ending with this U.O.Letter No.297/S dated, the 9th September 1949 requesting you to communicate orders of Government on the tenders for the equipments required for Chamarajasagar Water Works, I write to state that as can be seen from this office letter No.1912/S dated, the 16th March 1949 the tender of M/S Jewell Filters Co.,Ltd., for the supply of 5 Filters for Chamarajasagar Water Works at a cost of Rs.2,41,250/- was recommended for acceptance. In regard to the Floculators and Clarifiers the tend of M/s Dorr Oliver Company Ltd., London according to which the cost the materials comes to Rs.1,27,963/- was recommended for acceptance.

2. The Executive Engineer, Water Supply Division has now reported in his letter No.738 dated, the 12th December 1949 that the Fi has submitted a revised quotation according to which the cost of Filters for Chamarajasagar has increased by Rs.38,970/- in view of th tender received one year and seven months back. A copy of the Executive Engineer's letter together with the Firm's letter quoting the present cost of 5 Filters at Rs.2,80,220/- in suprecession of the previous quotation for Rs.2,41,250/-is enclosed for kind perusal. It is seen from the Firm's letter that the increase in cost is due to purchase of some of the parts etc., of dollar area which has sin appreciated due to devaluation.

3. In regard to the Fluculators and Clarifiers it is stated that the cost has gone up by 14% as can be seen from the letter date 21st December 1949 addressed to the Executive Engineer, Water Supply Division by M/s Dorr Oliver Company, Ltd., copy of which is enclosed

sed for perusal. It is seen from the above letter that the increase is due to increase in the cost of steel and in labour cost.

4 . In view of the above facts, it is desirable to call for fresh tender for the equipments. I ~~request~~ am therefore, requesting the Secretary, ~~Stores~~ Stores Purchase Committee, to address the Trade Commissioner in London to ~~intimate~~ institute urgent enquiries for obtaining the equipments in the soft currency areas. No action on the tenders already submitted to Government, is necessary.

Yours faithfully,

M.V. Lakshmana Rao 27-2-52

Chief Engineer of Mysore.

PM
25/2

Letter No.738 dated,the 12th December 1949 from the Executive Engineer, Water Supply Division, to the Chief Engineer for Irrigation in Mysore,Bangalore.

Filters ~~from~~ for Bangalore and Mysore Improvement works.

In continuation of this office No.1137 dated 16-2-1949 I write state that the Firm Jewell Filters Co., Ltd,,was addressed to intima if their tender for the supply of filters would hold good now since quotations were one year and 9 months old. They have in return sent modified quotations as enclosed herewith. The increase in cost for five units required for Bangalore is Rs.38,970/- and for six units fc Mysore Rs.32,500/- It is probable that the other firms would also in crease their rates suitably. Hence, their revised quotations may ha to be approved in view of urgency of the units required for Bangalor

Further the filters designed for Bangalore and Mysore are of th same capacity i.e., each of 1½ million gallons. The rates quoted ar not proportional. It is not known how there could be such difference For small difference in the dimensions of the Filters, the variation in price is heavy. The ~~xxxxxx~~ Filters for Bangalore are of 36'x20½' and for Mysore 30'x24'. By ordering five units only of the type for Mysore the cost would be Rs.2,58,333/- thus a saving of Rs.21,887/- cc be effected and the design of the filters house modified to suit the filters. As regards floculators the firm though reminded thrice has replied. They are being reminded again.

" COPY "

M N Lakshmana Rao 27/12/49

Chief Engineer of Mysore.

BR 2/50

Letter No.Nil dated, the 21st December 1949 from M/s Dorr Oliver Company, to the Executive Engineer, Water Supply Division, Bangalore.

Bangalore and Mysore Water Treatment Plants.

o ---

In continuation of our letter of December 6th, 1949 we are glad to write that we have received the price information from our Associated Company, Messers.Dorr Oliver Co.,Ltd., London.

Since the date of the original tender on January 9th, 1948, the price has gone up by about 14% uptp December 1949.

For your information we would advise you that this increase is due to increases in the cost of steel and National Labour wages awards, on the dates given below which has resulted in percentage increases of production costs as shown.

January 1948--	Increase in Steel Production costs	5%
July 1948	Increase in Labour Costs	2.½%
October 1948	Increase in Labour Costs	2.½%
April 1949	-do- Steel Production costs	1.1/4%
April 1949	Cessation of steel subsidy	2.3/4%
		14%

As we brought out to you before, the devaluation will not affect your rupee prices at all as the exchange rate getween the pound sterling and the rupee remains the same as before.

You will indeed be glad to know that the price increase is comparatively small and we trust that you will be able to place the order for equipment for these two plants at an early date.

Assuring you of our prompt attention.

" COPY "

Chief Engineer of Mysore.

1 5/2

Jewell Filter Company Ltd.

THE LIABILITY OF THE MEMBERS IS LIMITED
REGISTERED IN GREAT BRITAIN

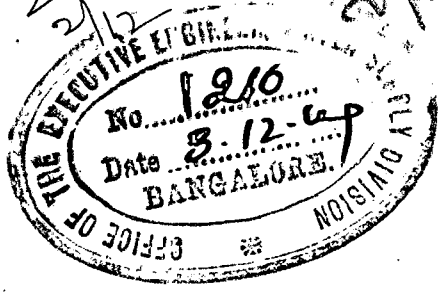
POST BOX 2315
4, LYONS RANGE, CALCUTTA, I.
TELEPHONE CAL. 4567?

Telegrams: Jewelfilco Calcutta

HEAD OFFICE
28, VICTORIA STREET, LONDON S.W.1.

OUR REF S-1316/C.
MH/AFL.

29th November 1949



The Executive Engineer,
Water Supply Division,
GOVT. OF MYSORE,
Bangalore.

Dear Sir,

Tender for Rapid Gravity Filters.

With reference to your letter No.1014 of 17th/18th October '49 and in continuation of our notification ref: MH/AFL dated 8th November 1949, we now have pleasure in furnishing our current prices for the equipment offered under our Quotation ref: S-1316/A and S-1316/B dated 18th February 1948.

There has been a considerable rise in the cost of equipment such as Omega Dry Feeders, etc., to be imported from the U.S.A., due to the recent devaluation of Sterling and the Indian Rupee in relation to the Dollar. We have furnished the present-day prices for this equipment but do not recommend its inclusion in view of the exceptionally enhanced prices. Prices thus affected have been underlined in red.

Our Quotation S-1316/A dt. 18-2-48 - QUOTATION NO.3 (BANGALORE - Filters

Page 12:

1. - EQUIPMENT for a 5 bed Manually operated Filter Plant as previously specified:

Price ... Rs.2,80,220/- 2,41,250 ✓

(Rupees Two Lacs Eighty thousand Two hundred and twenty only.)

ALTERNATIVELY:-

Page 13 & 14:

2. - EQUIPMENT for a 5 bed Hydraulically operated Filter Plant, as previously specified:

Price ... Rs.4,29,140/- 3,51,250

(Rupees Four Lacs Twenty-nine thousand One hundred and forty only)

Page 14: Our Quotation S-1316/A dt. 18-2-48. (BANGALORE - Filters.)

E X T R A to either of the above.

3. ONE Weir operated filtered water flow indicating and recording meter by Kents (or equal): Rs. 7,500/-.

4. ONE Wash Water controller with venturi tube etc: Rs.12,100/-.

5. TWO Pumps (one standby) and receiver for supplying hydraulic power: Rs. 7,800/-.

6.(a) ONE - JEWELL Type JSV Chlorinator: for Prechlorination: Rs.13,320/-.

(b) ONE - JEWELL Type JSW Chlorinator: for Main Flow Chlorination: Rs.10,650/-.

(c) ONE - JEWELL Type ASW Ammoniator: for Chloramine treatment: Rs.10,500/-.

Our Quotation S-1316/A dt. 18-2-48 - QUOTATION NO.4 - (MYSORE - Filte

Page 16:

1. - EQUIPMENT for a 6 bed Manually operated Filter Plant as previously specified:

Price ... Rs. 3,10,000/-. 2,77,500 ✓

(Rupees Three lacs Ten thousand only.)

ALTERNATIVELY:-

Page 17 & 18:

2. - EQUIPMENT for a 6 bed Hydraulically operated Filter Plant, as previously specified:

Price ... Rs. 4,88,000/-. 4,10,750

(Rupees Four lacs Eighty-eight thousand only.)

Page 18:

E X T R A to either of the above.

3. ONE Weir operated filtered water flow indicating and recording meter by Kents (or equal): Rs. 7,600/-.

4. ONE Wash Water controller with venturi tube, etc: Rs.12,100/-.

5. TWO Pumps (one standby) and receiver for supplying hydraulic power: Rs. 7,800/-.

Page 19: Our Quotation S-1316/A dt. 18-2-48. (MYSORE - Filters.)

E X T R A to either of the above (continued)

6. (a) ONE - JEWELL Type JSV Chlorinator: for Prechlorination: Rs.13,320/-.

(b) ONE - JEWELL Type JSW Chlorinator: for Main Flow Chlorination: Rs.10,650/-.

(c) ONE - JEWELL Type ASW Ammoniator: for Chloramine treatment : Rs.10,500/-.

TERMS and GUARANTEE as on pages 20 to 24 of our above quoted Quotation.

Our Quotation S-1316/B dt. 18-2-48 - QUOTATION NO.1 - (BANGALORE - Flocculators & Conditioners.)

Page 14:

GROUP I: INFLUENT CONTROL.

1. ONE - 24" Mains Level Regulator as previously specified.

Price ... Rs. 25,200/-.
(Rupees Twenty-five Thousand Two hundred only)

GROUP II : CHEMICAL DOSING & MIXING CHAMBER FITTINGS.

2. DRY FEED MACHINES as previously specified.

Price ... Rs. 42,150/-.
(Rupees Forty-two thousand One hundred and fifty only.)

Page 15:

3. MIXING Chamber Fittings as previously specified.

Price ... Rs. 14,800/-.
(Rupees Fourteen thousand Eight hundred only.)

GROUP III : CONDITIONERS.

4. FOUR sets Paddle Gear as previously specified.

Price ... Rs. 32,500/-.
(Rupees Thirty-two thousand Five hundred only)

Our Quotation S-1316/B dt. 18-2-48 - QUOTATION NO.1
(BANGALORE - Flocculators & Co

Page 16:

GROUP IV: CLARIFIERS.

5. Two sets as previously specified.

Price ... Rs.1,63,000/-.
(Rupees One lac Sixty-three thousand only.)

Summary of above QUOTATION NO.1.

Group I.	...	Rs. 25,200
Group II.	...	Rs. 56,950
Group III.	...	Rs. 32,500
Group IV.	...	Rs.1,63,000
T O T A L	...	Rs.2,77,650

(Rupees Two lacs Seventy-seven thousand Six hundred & fifty only)

Page 17: E X T R A

GROUP I : INFLUENT CONTROL:

6. ONE - 24" Short Venturi-tube as previously apecified: Rs.19,100/-.

GROUP II : CHEMICAL DOSING & MIXING CHAMBER FITTINGS.

7. PROPORTIONAL Rate-of-Feed Operating Device: Rs.19,950/-.

8. AIR MIXING & Aerating Device: Rs. 8,800/-.

A L T E R N A T I V E S.

GROUP II : CHEMICAL FEED: In place of items (2) and (7) above.

9. DRY-FEED Machines, comprising:

TWO - OMEGA Gravimetric Feeders, for sulphate of alumina, etc: Rs.68,160/-.

TWO - -DITTO- for hydrated lime:

10. PROPORTIONAL Rate-of-Feed Operating Device: Rs. 9,300/-.

Our Quotation S-1316/B dt. 18-2-48 - QUOTATION NO.1 - (BANGALORE - Flocculators & Conditioners.)

Page 17: ALTERNATIVES (continued)

OR:-

11. TWO - OMEGA Gravimetric Feeders for sulphate of alumina, as in item (9) above
TWO - OMEGA Feeders for slaking and feeding quick-lime. Rs. 92

12. PROPORTIONAL Rate-of-Feed Operating Device: Rs. 20,000/-.

AND

13. CHART RECORDERS: .. .. Rs. 8,700/-.

GROUP IV: CLARIFIERS.

14. Two Sets as previously specified: .. Rs.1,42,500/-.

Our Quotation S-1316/B dt. 18.2.48 - QUOTATION NO.2 - (MYSORE - Flocculators & Conditioners.)

Page 19:

GROUP I : INFLUENT CONTROL.

1. ONE - 36" Mains Level Regulator as previously specified.

Price ... Rs. 40,500/-.
(Rupees Forty thousand Five hundred only).

GROUP II : CHEMICAL DOSING & MIXING CHAMBER FITTINGS.

2. DRY FEED MACHINES as previously specified.

Price ... Rs. 42,150/-.
(Rupees Forty-two thousand One hundred and fifty only).

Page 20:

3. MIXING CHAMBER FITTINGS as previously specified.

Price ... Rs. 32,200/-.
(Rupees Thirty-two thousand Two hundred only.)

Our Quotation S-1316/B dt. 18-2-48 - QUOTATION 2 - (MYSORE - Flocculators & Conditioners.)

Page 20:

GROUP III : CONDITIONERS.

4. SIX Sets Paddle Gear as previously specified.

Price ... Rs.48,750/-.
(Rupees Forty-eight thousand seven hundred and fifty only.)

Page 21:

GROUP IV : CLARIFIERS.

5. Three Sets as previously specified.

Price ... Rs.2,44,500/-.
(Rupees Two lacs Forty-four thousand five hundred only.)

Summary of above QUOTATION 2.

Group I.	...	Rs. 40,500
Group II.	...	Rs. 74,350
Group III.	...	Rs. 48,750
Group IV.	...	Rs. 2,44,500
T O T A L.	...	Rs. 4,08,100

(Rupees Four lacs and Eight thousand one hundred only.)

Page 22:

E X T R A.

GROUP I : INFLUENT CONTROL.

6. ONE - 36" Short Venturi-tube as previously specified: Rs.30,200/-.

GROUP II : CHEMICAL DOSING & MIXING CHAMBER FITTINGS:

7. PROPORTIONAL Rate-of-Feed Operating Device: Rs.19,950/-.

8. AIR MIXING & Aerating Device: Rs.11,300/-.

A L T E R N A T I V E S.

GROUP II : CHEMICAL FEED: In place of items (2) and (7) above:

9. DRY FEED MACHINES, comprising:

TWO - OMEGA Gravimetric Feeders, for sulphate of alumina, etc.
TWO - -DITTO- for hydrated lime. — Rs. 68,160/-.

10. PROPORTIONAL Rate-of-Feed Operating Device: Rs. 9,300/-.

OR:-

11. TWO - OMEGA Gravimetric Feeders for sulphate of alumina, as in item (9) above
TWO - OMEGA Feeders for slaking and feeding quick-lime. — Rs. 92,700/-.

12. PROPORTIONAL Rate-of-Feed Operating Device: Rs. 20,000/-.

AND:

13. CHART RECORDERS [illegible] .. Rs. 8,700/-.

GROUP IV : CLARIFIERS.

14. Three Sets as previously specified: .. Rs.1,89,520/-.

TERMS and GUARANTEE as on pages 24 to 28 of our above quoted Quotation ref: S-1316/B dt. 18-2-48.

Yours faithfully,
JEWELL FILTER COMPANY LIMITED.

Acting Manager.

Copy to: The Secretary,
Stores Purchase Committee,
"United India" Building,
BANGALORE.
for information.

7845
F

Appendix F G—1]

SUBJECT Tenders for the Supply of Rapid sparkly Filters flocculators and Chemicals required for (1) the development of Chamsagar and water works and (2) the Lowrey Zonage improvement of water supply Scheme in Mysore city

Diary No. of letter replied to

General and Revenue Secretariat

( )

the 19

Date of issue

Signed by

List of enclosures

7513
28/4

Copied by

Examined by

Section WS

Pubh
26/4/50

File No. 11-49

Serial No. 21

No.

To the Ch
Bangalore

Sir,

With reference ~~to~~ your letter No. 1369/S dt 28.2.1950 on the abv subject, I am directed to state ~~as~~ ~~tenders~~ ~~called~~ received for ~~the~~ above ~~the~~ ~~works~~ ~~nearly 18 months~~ old that the tenders received for the above two works may be cancelled as they are nearly 18 months old, and as the estimates for the two

D

. Fresh tenders may be
called for after the estimates are
sanctioned.

Since the work of flocculators
and pumping sets is going
to increase fresh tenders
may be called for after
the estimates are sanctioned.

Yours faithfully

Sup P.W.D

of 1918

3: As it is understood that the supply
delivery of a flocculator at B camp
is rate of filtration is going to
increase resulting in increase work
supply and supply. I am to request
you kindly formulate proposals in
this behalf and submit the same
to the Collector of Govt pending
sanction to the two big estimates

THE DORR COMPANY
(INCORPORATED)
ENGINEERS

NEW YORK CHICAGO DENVER LOS ANGELES ATLANTA

RESEARCH AND TESTING LABORATORIES
WESTPORT, CONN.

CABLE ADDRESS NEW YORK
"DORRCLASS"

BARRY PLAC
STAMFORD, CONN.

Taj Mahal Hotel, Bombay 1,
April 5, 1950.

The Secretary to Government,
Public Works and Electrical,
Government of Mysore,
BANGALORE.

Re: Bangalore and Mysore Water Treatment Plants

Dear Sir:

We were glad to have had discussions with you regarding the above projects during our visit to Bangalore on the 23rd and 24th of March. The many courtesies shown by you are greatly appreciated.

As discussed, we have already written to the Chief Engineer requesting him to proceed on the basis of the tenders already submitted. The devlauation would have no effect on the rupee price to you since the equipment is to be imported from the sterling area. About the change in price, between the date of tender and shipment, due to the changes in raw material prices and labour wages, our Dorr-Oliver Co., Ltd., in London, will satisfy the Mysore Trade Commissioner in U.K.

You kindly informed us that you would communicate to us regarding the position of the above projects. We are looking forward to hearing from you at your early convenience.

Thanking you,

Very truly yours,

B.V. Bhoota.

BVB:MR

This is submitted to Government Number in order. Please put up with the papers received

10.4.50

The file is placed below

26/4 Secy P.W.D.

27/4/50

Seen.

Please write to C.E. to submit at once what he proposes to do with regard to the

Appendix F G—1]

SUBJECT Tenders for the supply of Rapid grass cutting Claritors

Section pw. 1112

File No.

Serial No. 16/57

Diary No. of letter replied to .....

No. Reminder

To The C.E.

BZm.

General and Revenue Secretariat

( )

the 19 .

Sir,

Date of issue.....

In inviting refce

to Board's letter no: pw 611 dt. 26.

Signed by.....

on the above subject,

directed to remd:

kindly to intimate the

proposal to be taken

the matter.

Subs

List of enclosures.....

Copied by..... 6/5/57

Examined by.....

SUBJECT Development of Chamarajapuram Pumping Station.

PW 2445
20/6/50

Section WS
File No. 10-50
Serial No. 18.

Diary No. of letter replied to.....

No.

To The Mayor,
Corporation of Bangalore
Bangalore

General and Revenue Secretariat

( )

the 19 .

Sir, I am directed to state that at a conference held on 5th Sept 1946 at Bangalore when the Minister for P.W., the Chief Engineer, the President the B. City Municipality and Chairman of the Bangalore City Improvement Trust Board were present, the question of adequacy of the water supply system Bangalore in the light of future expansion of the city and growth of population was considered and it was then concluded that the CRS dam might be raised by 10 feet so as to enhance the supply of water from 12 to 15 m.g.d. The project as submitted by the Chief Engineer costs Rs 39.0 lakhs as per as hydro-mechanical for raising the dam 10 feet, providing additional

Date of issue.....

Signed by.....

Also please see Diary No 1813 13.6.50

List of enclosures.....

4 5 Rly

Copied by 16/6

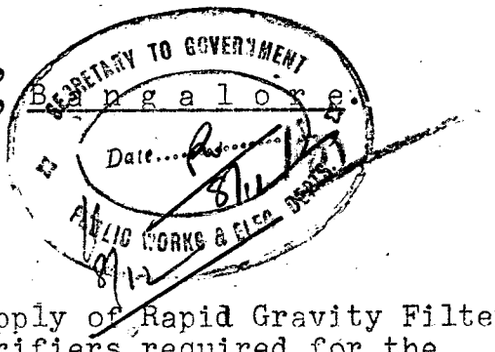
Examined by.....

recurring charges, Construction is a sure
water tank and a sturdy pedestal
Taking the capital so far invested
and stock for the improvements
now contemplated, the net revenue
accruing from the water supply shows
a return which is practically negligible
the water supply & water for the City
and Civil station fixed at Rs 6·39 and Rs
respectively over 15 years of increasing
suitable enhancements in lines of
the increasing cost of materials, labour
and commodities. It is therefore
proposed to enhance the rate to 0-12-
or at least 0-10-0 on all India basis

2. I am to request you kindly
to ascertain and intimate the
willingness of the Corporation
to pay the increased rate
which is necessary to set up
the work of providing adequate
water supply to Bangalore.

3. A very early reply is
requested.

The Secretary to Government,
Public Works Department,
Bangalore.



Sir,

Subject:-Tenders for the supply of Rapid Gravity Filter Floculator and Clarifiers required for the Development of Chamarajasagar and Water Works.

- - - -

With reference to your letter No. P.W.611/W.S.11-49-21 dated 26-4-1950 intimating that the tenders may be cancelled a requesting to submit proposals for the addition of a Floculato for increasing Water Supply at Bangalore, I have the honour to forward herewith for the information of Government a copy of l No. 478 dated 28-7-1950 received from the Executive Engineer, Water Supply Division, Bangalore intimating that proposal will cost about Rs.1,20,000/- and that this expenditure does not hel in any way to reduce the cost of installing further plants and hence not economical.

In the circumstances explained in the Executive Engine letter, I am of opinion that the expenditure of Rs.1.20 Lakhs fo installing Floculator only is not of top priority. An estimat amounting to Rs.39.00 Lakhs for the development of Chamaraiasa Water Works Station to the full capacity of pumping 15 to 16 was finally returned to you in this office U. O. No. 915/S dat 11-12-1949 with all the particulars required by Government. subject was discussed on 28-7-1950 at the Conference held in t Chambers of the Finance Minister in connection with water supp to Jayanagar and Rajaji Nagar. As per decision arrived at th Conference, this scheme is urgent and will have to be taken up at a reduced cost of Rs.29.00 Lakhs (vide letter No.L.4948 date 3-8-1950 addressed to the Chairman, City Improvement Trust Boa

P.T.O.

Letter No. 4948 dated 3-8-1950 from the Secretary to Governme C.S.G.Department, Bangalore, to the Chairman, City Improvement Tru Board, Bangalore,

---

With reference to the correspondence ending with your letter No.G.273/50-51 dated 21st July 1950 forwarding a note in connect with the conference held on 28th July 1950 in the chambers of the Minister for Finance and Industries regarding water supply arrange ments to be made in the Jayanagar Extension and Rajajinagar, Bang City, I am directed to note below the decisions arrived at the conference:-

1. The Scheme of Rupees Twentynine lakhs for improving Chamaraj Sagar is urgent.

2. The 24" loopline to Mount Joy and the 15" loopline from Mount Joy to Byrasandra has to be taken up for providing water ~~xx~~ supply to Jayanagar and Rajajinagar.

3. As a tentative measure, borewells may be sunk at three or four places in Jayanagar ~~xx~~ immediately. They should be got ready by December 1950.

4. A ~~xx~~ storage tank should be built at Byrasnadra Hill behind T.B.Sanatorium.

5. Orders may be placed with the South India Export Co., or any other firm through the Stores Purchase Committee for the supply of C.I.Pipes for sub-mains for the distribution system.

6. It was generally felt that the power charges for pumping installations at Chamarajasagar at .6 annas per unit was too high compared with the rates at which it is supplied to the Textile Mills etc.n in Bangalore.

I am to request you to take early action to implement the ab decisions. A report of action taken in the matter may kindly be submitted to Government early.

"C o p y"

for Chief Engineer of Mysor

Letter No. 478 dated 28th July 1950 from the Executive Engineer, Water Supply Division, Bangalore to the Chief Engineer of Mysore, Bangalore.

Re:-Tenders for the supply of Gravity Filters, Etc.,

With reference to your No. 2149/I dated 25-5-1950, regarding the proposals to increase filtering capacity, I write to state that at Chamarajasagar there are katpresnt 10 filtering units each capable of filtering I Million gallons with and overload of 10% i.e. 1.1.million gallons. With the existing filters it is possible to filter 11 million gallons daily; if the filters are overloaded continuously it will be at the cost of quality of Water. Further it is observed that the existing settling tanks are not capable of handling this quantity. For this first 2 or 4 days after the tanks are cleaned the filterate is observed to be free from suspended materials and thereafter due to restricted passage the flow is observed to l direct to the outlet carrying with it the suspended materials which go to reduce the capacity of the filter or requires quic washings.

To remedy this, it was presumed that by constructing a floculator and making use of the existing settling tanks, it w be possible to get better filterate at the filters. But by conducting experiment it is seen that of course the function c the floe is quicker by having machanical agitation but the flo gets distrubed when it is to be led to the existing settling t If floculator is to function it must be accompanied by a class whose in the deposition of the floe takes place.

This point was also discussed with Dr. Bhoota, represent of Messrs. Dors' & Co., leading specilists on themanufacture c Floculators' and he was of the opinion that if two rectangular floculators are constructed the object could be achieved and t cost thereof would be about Rs.1,20,000/- . This expenditure

expenditure would in no way help to reduce the cost of the p
plants and hence I am of opinion that the proposal is not
economical.

Therefore I submit that the project costing Rs.39/- lakhs
may kindly be sanctioned early.

"C o p y"

Chief Engineer of Mysore.

SN)

To

The Mayor
Corporation of Bang
Bangalore

Subject :- Development of ch
sewage pumping Station.

Sir,

I am directed to re
reference to this office no p
L440 | 25 10-5-18 dated 2
on the above subject to
request that the particular
called for therein may kin
be furnished very early
upon further

Yr
31.3.17 Asst to Ex

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

WD 06823—GPB—25,00

Water Supply to
V.A.L.
L.P.I

The cost (ranging Rs 10/- Lakh
to be shared bet the State,
V.A.L & L.P.I in Equal
parts - Immediate

PWD Secy) V.C.D

Office of the Minister
for Finance and Industries.
No. M. 36/51-52
Date 1.2.1952

12/4

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

No. PW334-37.

General and Revenue Secretariat,

Dated Bangalore, 14/4/41 *194*

FROM

The Secretary to the Government of His Highness the Maharaja of Mysore.
Public Works Department, Bangalore.

To

The Commissioner,

Corporation of Bombay, Madras, Calcutta, and Ahmedabad.

Sir,

I shall be obliged if you will kindly intimate the rates per 1000 gallons of filtered water charged for domestic supplies and for Industrial Concerns.

Yours faithfully,

Secretary to Government,
Public Works Department.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

WD 015451—GPB—35,000—26-9

To

The mayor
corporation of
city of Banga
Bangalore

Subject:- Devel
ment of Chaman
Sagar pumping

Sir,

I am direct
to invite refere
to the marginall
noted communica
on the above sub
and to state i
the ~~Situation of~~ Water
supply position
to Bangalore city
has really become ser
serious due to
increase in wa
consumption par
- certainly in the
newly formed ex
tions. I am there
to request you

[To be used only for notes, requisitions, etc., not intended for permanent record.]
WD 15451—GPB—35,000—26-

kindly be communicate
the concurrence of the
corporation to take
up the work of
developing Chamarajsagar
at a cost of
Rs 39.0 lakhs
pending settlement
of rate for the
quantity of water
to be supplied

2. ~~Necessary~~ As much amount
~~of money~~ (as much
as possible) may
also be made available
from the Corporation
for the purchase of fresh
meters

Yours faithfully

21.1.52

17/1 Sup. W.S

copy to etc for
information with his
U No 3691-92/5
dtd 6.12.51.
the estimate for Rs. 39.0 lakhs

3.—Should routine notes be written on small slips, this
s must be copied, or slips pasted on this form.

15/1/52 Sup. W.S 21.1.52 to you reply

G. KRISHNASWAMY, B.E.,
EXECUTIVE ENGINEER

OFFICE OF THE EXECUTIVE ENGINEER,
WATER SUPPLY DIVISION,
BANGALORE, Dated 6th Feb. '52.

P. E. SECRETARIAT
8113
Dated 19/2/52

D.O. No. 2521

Encl- one

To

The Personal Assistant
to the Hon'ble Home Minister,
Bangalore.

OFFICE OF THE HOME MINISTER.
No. 13540
Date 21-2-52

Sir,

I enclose herewith the instructions issued by Hon'ble Home Minister issued on the 3rd instant, and request you to submit the same to him for kind perusal & approval.

P.W. Secy.

Confirmed

Yours faithfully,

(G. Krishnaswamy)
Executive Engineer,
Water Supply Division,
Bangalore.

NKV/-

18.2.52

A draft is put up

Secy

No. 4630-1/S
Encls: 1

Office of the Chief Engineer of Mysore,
BANGALORE., Dated 27.2.52

To

P.S. Date 28/2

The Secretary to Government,
Public Works Department,
BANGALORE.

28/2/52

Sir,

I write to forward herewith a copy of the Instructi 28/2/52
of the Hon'ble Minister issued on 3rd February 1952 at Thippa
gondanahalli on the Improvement Scheme of Bangalore Water Supply
and to request you kindly to get the oral instructions confirmed

The instructions have been confirmed by the minister and orders are under issue separately. This may be recorded

Yours faithfully,

N. Neelakantappa 28/2

(N. NEELAKANTAPPA.)
Chief Engineer of Mysore.

BRS.RAU.20.2

28/2
28/2/52

The need for taking up the scheme is extremely urgen Pending sanction to the comprehensive estimate, provision of Rs lakhs may be made in the budget for 52-53 for constructing the house and providing filter equipment as the present filters ar already over loaded. Necessary proposals for the minimum sta required for the execution of the work may be proposed. The estimate may be recast providing current schedule of rates.

2. Even if orders are placed for the 2,000 H.P. pumps it take over a year or two to get them from abroad,. Funds for p chasing these may be provided in the budget for 1953-54.

3. Cheap houses similar to the ones put up at Mysore may proposed for the additional staff to be appointed.

4. Whether extending the existing filter house and putti up two more filters of the present type will not be enough to m the immediate requirements may be investigated.

5. The Inspection Bungalow at Thippagondanahalli is repo to be not self supporting. Proposals may be sent up to double existing rate of rent. Also an estimate for putting up a bloc 4 rooms 14ft x 12ft each with attached bath rooms in line with vegetarian kitchens may be sent up as there seems to be great d for the bungalow. The rate for these rooms may be reduced to of 2nd Class Travellers' Bungalow.

6. Some Eucalyptus trees may be planted near the vegetar kitchen and a nursery of rain trees and gold mohar may be raise

7. The road from Bangalore to Thippagondanahalli must be maintained well. Some portions of the road are very bad. Syste improvements may be taken up. Rain trees and gold mohar may be planted for the avenue and some watchmen appointedto look after the plants properly. The Executive Engineer, Bangalore Division may be informed of

No.1362 dated 8th February 1952.

Copy of the foregoing is submitted to the Chief Engineer of Mysore, Bangalore, for information and kindly communicating confirmation.

SD. G.Krishnaswamy,
Executive Engineer, Water Supply
Division, Bangalore.

" Copy "

N. Neelakantappa 26/2

(N. NEELAKANTAPPA),
Chief Engineer of Mysore.

Appendix F. G.—1]

SUBJECT Instructions of Hon'ble Home minis
issued on 3.2.52 at Shikaragondanahalli

Section

File No. 8113

Serial No. PW(Q)III-22

No. 14/8/52

Diary No. of letter replied to.....

To

The Executive Engin
W.S. Div

General and Revenue Secretariat

(—)

the — 19 .

Sir,

With reference to
your letter no 2521 date
8.2.52, I am directed t
state that the instructi
issued by the Hon'ble Hon
minister on 3.2.1952 at
Shikaragondanahalli ar
confirmed

Yours faithfu

29.2.5
29/2 Sdy P.W.D

Date of issue.....

Signed by .....

copy with a copy
instructions issued by th
Hon'ble Home minister i
forwarded to CE for inf
nation

List of enclosures.....

29.2.52
29/2 Sdy P.W.D

Copied by.....

Examined by.....

22/2

22/2/52

WP 015460—GPB—30,000—25-9-51

Letter No.10081, dated 19th November 1951, from the Executive Engineer, Water Supply Division, Bangalore, to the Chief Enginee of Mysore, Bangalore.

Re:- Water Supply to Bangalore.

In submitting herewith a copy of letter No.1960 dated the 1 November 1951 from the Assistant Engineer, No.1, Sub-Division, Bangalore explaining the acute position of Water Supply to Bangalore, I write to state that some how, or other the issues h reached peak figures this year. In the month of September 1951 ring which month monsoon was still prevailing, the average daily issue had gone upto 11.885 M.G.D. which has surpassed even previ summer records. Condition being such during this month, water supply position in the coming summer season will be something al ming unless immediate action is taken to improve the pumpage and filtering capacity at Thippagondanahally.

It is a fact that the population of Bangalore has increased beyond expectation. In addition to this, the City Improvement Trust Board, Bangalore have been forming new extensions without making sure whether or not it is possible to supply water to the localities from the existing source. Large scale house constru ion is going on and people are asking for Non Domestic supplies. This could be done only at the risk of domestic consumers.

Of late, numerous requisitions are being received from the Bangalore Corporation for installing public fountains in the Cit at the rate of 2 to 3 fountains per ward. Each public fountain would mean nearly 3,000 gallons per day. No doubt the necessit for these cannot be over estimated. But the difficulty is that for every public fountain there will be corresponding draw from the available storage which in turn would reduce the supply to domestic consumers. I have apprised the Corporation Commissio of the situation and requested him to reduce his demand for publ fountains, as much as possible.

The Corporation has been addressed many a time for sanctioni the estimate for purchasing fresh meters and to place funds at t disposal of this department. They have done neighter. Recent the Commissioner, has written that a sum of Rs.50,000/- has been included in this year's budget and that the apportioning of this between the City and the Civil area is before the Corporation. An estimate for nearly Rs.3¾ lakhs is sent to the Corporation an even granting that a sum of Rs.25,000/- is given this year we co at best purchase about 300 meters while nearly 3,100 fresh insta tions have to be metered and another 3,500 damaged or meter stop connections have to be replaced by new meters. The fact that i the case of such installations, there will be enormous wastage of water, cannot be over emphasised. If all the installations metered, there is bound to be a very appreciable saving of water which goes a long way to mitigate the existing troubles. The Commissioner is apprised of this also.

A scheme costing Rs.39 lakhs to develope the plant at T.G. Hally to 16 M.G.D. is pending with the Corporation for settlemen of rate for the quantity of water to be supplied to them. It i imperative that this scheme should be pushed through immediately if satisfactory supply is to be ensured. As it is, intermittar supply will have to be resorted to from January 1952 as otherwis it may not be possible to assure equitable distribution throughc the City.

A copy of this letter is being sent to the Commissioner of the Corporation to kindly place this before the next meetin(to push through the scheme for improving the water supply t(Bangalore.

(Copy)

FOR CHIEF ENGINEER OF

Copy of letter No.1960 dated 1-11-1951, from the Assistant Engineer, No.1, Water Supply Sub-Division, Bangalore, to the Executive Engineer Water Supply Division, Bangalore.

I write to state that the position of the Water Supply to Bangal is not at all on a sound basis. The issues are increasingly daily due to the formation of new extensions, additional house connec ions without meters and public fountains. It is seen that the consu ption even during the rainy season is almost on a par with or has exc ded the consumption during the summer of this year. Our receipts ar the same, viz., what it was in March 1949.

Till March 1949 we were working only two pumps at C.R.S. and fro that time three pumps are being worked. The duplicate line has yet yet been taken to service for the first three miles.

2. The following statement gives the average daily receipts and issues for the last tweleve months.

1. October	.727	10.811 M.
2. November	.999	10.914 ,
3. December	.061	11.055 ,
4. January.	.186	11.288 ,
5. February	.344	11.349 ,
6. March	.459	11.405 ,
7. April	.666	11.654 ,
8. May	.539	11.476 ,
9. June	.694	11.767 ,
10. July	.547	11.541 ,
11. August	.813	11.799 ,
12. Septembe	.885	11.876 ,
	.410	11.493

Thus the total maximum receipt from both the sources is 12.1 mil on gallons daily. We have to consider the various electric shut dow and shut downs due to pipe line and duct repair works and co-agulatic tank cleanings. Thus 11.885 is the maximum quantity we have receive viz., for the month of September 1951, but the average daily receipts for the last 12 months is 11.410 millions gallons. The daily average issues have been 11.493 million gallosn. It is clear that the daily ue has exceeded the daily receipt. The situation has been met with depleting the availabe storage.

3. The average daily issues for the summer of this yeer viz., fr December 1950 to June 1951 has varied from 11.055 m.g. to 11.767. is significant that the issues during this rainy season has been 11.8 mg. as against the maximum summer issues 11.767 m.g. Such being the case the demand for water during the coming summer which commences f December 1951 will be much more than 11.876 m.g. or roughly it may be not less than 13 m.g. Our maximum average receipts will be about 11 mg. only. Hence the supply hours have to be restricted to balance t receipts and issues. In other words intermittent system has to be

4. The total storage capacity at the C.J.F. is about 14 mg. The daily demand is about 12 mg. It is a safe measure to have a storage of 48 hours capacity or 24m.g. Proposals are under contemplation to the construct another storage reservoir reservoir of 10 Million gallons capacity.

Though the present storage capacity is 14 M.G. still we have not be able to store more than 9.5 m.g. and that too on some days only. For the last one week in spite of the best vigilence and shutting off the supply during 10 p.m. and 4 a.m., it has not been possible to store more than 8.4 mg.

5. Under the circumstances, there is no alternative but to introduc the intermittent system forthwith. It will be, closing off supply between 10 P.M. and 4 A.M. till the end of December 1951 and thereafter between 11 A.M. to 6 P.M. and 10 P.M. to 4 A.M. Otherwise it will not be possible to meet the demand at all. The distribution system adopted for Bangalore is for continous supply only. The trunk mains are acting both as supply mains and distribution mains. Thus we cannot close the trunk mains since reservoirs have to be filled up. It is therefore obligatory to operate all the branch valves or 600 operations commencing fr C.J.F. to Basavangudi. All these have to be operated manually and timi hs cannot be kept up rigidly. The intermittent system has it own disadvantages as noted below.

1. Variations in timing.
2. Red Water troubles due to variation in pressures.
3. Air locking in mains and reduced pressure.
4. Certain places like Srirampur and Mohammedan Block, Basavangui, Sannidhi Road, Basavangudi, which are getting water only during night will get affected but some supply will be arranged for.

6. REMEDIAL MEASURES:-

i) There are 16,074 installations out of which 3,079 have to be metered. Even out of the metered connections about 3,500 connections are eigher meter stopped, damaged or removed. Thus nearly 50% of the installations have been without meters. There is no check over the consumption. All the domestic connections are being serviced without meters. In the Civil Station, at least the number is limited and flat rate is being levied. In the City no such procedure is in vogue. The number of taps in a house is not at all limited. No flat rate is lveied. The supply is free and unlimited.

many of the defective meters could not be set right for want of ~~dpstr~~ spare parts. A number of attempts have been made but not succ ful so far. In all such cases of meter stopped or damaged or removed cases, only averages based on the previous consumption are being charge Tenemental houses are on the increase issuing more water.

The Corporation though rominded several times for the sanction of estimate for the purchase of new meters has so far not responded. It i absolutely necessary to meter all the installations. It will not only give revenue but will prevent wastage of water. Hence the Corporatio has to be informed that no new installations either for domestic or domestic will be sanctioned without a meter. This is necessary in the interest of building up pressure in the mains and preventing wastage of Water.

ii) The above suggestions are only palliatives. The permanent measure is to increase the supply. Proposals have been made and detail estimates submitted amounting to Rs.39 lakhs for developing the C.R.S.Plant to 15-16 M.G.D. There is enough water in the reservoi and the pipe line has also the capacity. The bottleneck is the filter and extra pumping units. It is therefore absolutely necessary to put the schome into execution immediately. ~~For the put the scheme into execution immediately~~ For the present we can take up the following

1) To construct Floculators and Clarifiers.
2) To construct Filter House-Filters and Pure Water Tanks.
3) To instal two units of 2000 H.P-Pump sets.

The rest of the works may be taken up later on and the rising of the dam the last.

We have reached a stage where we cannot think of any other remedy at all. The Trust Board is laying out extensions alround and no water can be given till additional water is brought to Bangalore.

It is learnt that the above estimate is pending with the Corporation for the last 18 months in connection with the rate of water supplied. No further delay is desirable. The Corporation has to be told that they have to decide and return the estimates.

iii) The present pumps are eighteen years old. Their performance is outwardaly good. The efficiency has gone down considerable, viz., from 70% to 65% or by 13%. Thus considerable power is being wasted. The daily power charges for working the three pumps per day is about Rs.2,100/- Out of this 13% or Rs.273/- per day or Rs.8,190/- per month or Rs.98,280/- per year is lost due to the lowering of the efficiency of the pumps. Roughly we are losing one lakh of Rupees every year on this account.

The life of a running machinery is about ten years normally. It is high time we scrap these pumps and install more efficient modern pumps of higher capacity. Keeping everything as it is, we may replace the three existing 1000 H.P. Pumps by 2,000 H.P. Units. The construction of additional filters has to be taken up before we can think of any improvement in any direction. The cost of a new set may be bout Rs.1.51 lakhs or 3 sets it will be Rs.4.5 lakhs. Savings in power alone will repay in 4 ½ years.

(C o p y)

H Lakshmana

Chief Engineer of My

STATEMENT A.

Return expected by raising the Dam of Chamarajasagara for a capacity of 15-16 ~~xxxxxx~~ M.G.D.

Estimate for Rs.39,00,000.

Capital invested on Chamarajasagara works up to 1947-48	1,30,70,750		
-do- for 1948-49	7,00,175		
	1,37,70,925		
Add this estimate	39,00,000		
Total capital invested	Rs. 1,76,70,925	Or	1,76,71,000/-.

Output per year at an average of 14 M.G.D. = 365x14 = 5110,000,000 Gls.

1948-49.

Total issues for the year 3398,563,000 Gls.

Gross demand (Revenue) for the year.

1) Civil Station.	5,23,886- 1- 0
2) City Municipality	7,80,756- 7-0
3) Outside Municipal Limits.	3,33,083- 3-0
4) Establishment charges received.	24,818- 8-0
Miscellaneous receipts (Approximate)	8,000- 0-0
	16,70,544- 3-0

For an issue of 3398,5630 Gls. Revenue is Rs.16,705

. . for 5110,000,000. ----

$$\frac{16,70,500 \times 5110,000}{3398,563}$$

= Rs. 25,11,724 .808

Or

Rs. 25,11,725

Under the existing agreements with the Municipalit

Gross Revenue to be realised Rs. 25,11,725

Working expenses as per Budget for 1949-50	=	12,38,000
Additional working expenses as per Statement (C)	=	5,44,617
		17,82,617
Net Revenue		7,29,108

For a total capital of Rs.1,76,71,000 - Net Revenue would be 7,29,108

100 - $\frac{729108 \times 100}{17671000}$ Or 4.126%

Net return realised	=	4.126 %
Deduct Interest at 3%	=	3.000 %
Net profit	=	1.126 % on the capital invested.

M. N. Ramachandra Rao 17/10

Executive Engineer,
Water Supply Division.

Raising the Dam of Chamarajasagara for a capacity of 15-16 M.G.D. Estimate for Rs.39,00,000

Depreciation. Rs. 74,317 per annum.

1). Dam proper ½ %

2). Buildings 1 %

3). C.I.pipes and fittings. 2½ %

4). Other structural works 2½ %

5). Steel pipes, fittings, pumps & machinery 5 %

Particulars.	ITem No.in the Estimate.	Estimate.	% of Depreciation.	Value of Depreciation.
1). Dam proper	1	2,45,000/-	½ %	1,225
2). Buildings:-				
i). Constructing filter house & wash water tank.	5	3,19,000/-		
ii). Extending Pump house	9	2,00,000/-		
iii). Constructing quarters etc.	11	3,70,000/-	1 %	8,890
		8,89,000/-		
3). C.I.pipes & Fittings				
4). Other structural works				
i). Raising the Waste weir body wall	2	82,000	Under (1)	
ii). Protective works to waste weir valley.	3	2,50,000	-do-	
iii). Constructing floculators & Clarifiers.	4	3,37,000		
iv). Constructing filter shell	6	88,000		
v). Providing filter equipment	7	3,08,000		
vi). Constructing pure water tanks.	8	2,03,000	Under (2)	
vii). Recovery of leakage water from the waste weir valley.	12	3,10,000	-do-	
viii). Constructing 2 M.G.D. Reservoir.	20	15,78,000	2½%	
		2,00,000	do	
5). Steel pipes, Machinery etc.				
i). Installing additional pumps.	10	3,00,000		
ii). Tools & Plant for the	18	95,042	5 %	

Raising the Dam of Chamarajasagara for a capacity of 15-16 m.G.D.
Estimate for Rs.39,00,000.

Working expenses.

Particulars.	C.R.S.(old) as per Budget for 1949-50	Additional required for this estimate	C.R.S.(new) as per Budget for 1949-50	Additional required for the estimate
1. Salaries	9,792	5,240	5,184	
2. Executive Staff & Establishment.	61,338	2,124 1 Gr.Surveyor 3 S.o.'s	23,570 etc.	6,580 2 Sr.Operators operators.
3. Travelling allowances.	1,700	300	1,800	250
4. Contingencies.	200	25	100	20
5. Contribution to W/C. Provident Fund.	500	-	400	-
6. Power & Telephone charges.	1,66,000	-	4,10,000	3,90,000
7. Consumable & Petty Stores.	21,000	10,500	83,200	41,600
8. Repairs to Buildings, machinery etc. & pipe line.	26,200	3,275	23,000	5,750
9. Temporary W/C. Establishment.	49,512	-	31,808	-
10. New Minor Works	2,000	-	1,000	-
11. Tools & Plant	2,500	625	6,000	1,500
12. For Rounding	58	11	38	
	3,40,800	22,100 (1)	5,86,100	4,45,700 (2)
	3,62,900		10,31,800	

Additional Dearness Allowance

40x12	=	480
30x2x12	=	720
18x6x12	=	1296
	=	2496
		4
		2500 (3)

Additional working expenses.

Annual Maintenance (old)	- 22,100 ... (1)
do do (new)	- 4,45,700 ... (2)
Dearness Allowance.	- 2,500 ... (3)
Depreciation. (Statement B)	- 74,317
	5,44,617

17/10

Executive Engineer,
Water Supply Division.

VERNMENT OF MYSORE.

olic Works Department)

P. W. SECRETARIAT.
512
Dated 17/4/52

OFFICE OF
THE CHIEF ENGINEER OF MYSORE.
Bangalore, Dated 16-4-1952.

SECRETARY TO GOVERNMENT
Date 15/4
PUBLIC WORKS & CLSD. DEPTS.
15.4.52

The Secretary to Government,
Public Works Department,
Bangalore.

Re: the estimate for developing the C.R.S. Scheme at Thippagondanahalli to 16.M.G.D.

In continuation of this officeletter No. 4630-1/S lated the 27th Feb.1952, forwarding for getting confirmed the nstructions of the Hon'ble Minister for P.W.D. on 3.2.1952 or he Improvement Scheme of Bangalore Water Supply, I herein nclose for information of Government copy of letter No.1440 lated 22nd Feb 1952 received from the Executive Engineer,Wate upply Division, Bangalore, splitting up into convenient porti he above work so as to facilitate execution of the work in tages during 52-53, 54-55 and 55-56.

The most urgent and important works which could be aken up immediately without waiting for any foreign materials ave been provided for during 1952 - 53. Though filtering quipment and pumping machinery have been provided for during 953-54 orders have to be placed with the firms immediately.Si t will take a year or two to get them from abroad.

It is reported by the Executive Engineer that the ilter House has been fully extended and that no further exte ion is possible. It is not also possible to locate any more ilters inside. The existing coagulation tank has already be verloaded and it cannot take any further load. As such the onstruction of new filters is an absolute necessity. I requ ou therefore to kindly address the Corporation authorities t ountersign and return the estimate for Rs.39.00 lakhs fo ng the C.R.S.Scheme at Thippagondanahalli to 16 M.G.D.

Sl.No.	Item No.	Name of Work.	Amount.
3	3	Protective works to Waste Weir Valley	2.50 lakhs
4	14	Constructing quarters	3.70 "
5	13	Acquisition of lands	0.96 "
6	14	Tarring of Colony roads	0.35 "
7	15	" of Bangalore Nagadi Road	2.50 "
8	16	Establishment 25%	0.42 "
9	18	Tools and Plant (0.7%)	0.24 "
10			
9	17	Leave and Pension allowances	0.25 "
11	19	R o u n d i n g	0.15 "
			16.37 "

Thus grants required will be -

(i)	During 52 - 53	11.29 lakhs
(ii)	" 53-54	12.84 "
(3)	" 54-55	16.37 "
	Total	40.50 lakhs against 39 lakhs as per estimate prepared in 1947.

The most important works which could be immediately taken up without waiting for any foreign materials have been provided for during 1952 - 53. Thus we want to construct the floculator, filter house, filter shell and pure water tank so that we will be ready to install the filter equipment to be received in 53-54.

As regards establishment tools and plant 50 of the total charges provided in the estimate is allocated in the 1st year and 25% for each of the other two years.

Though we have provided for filtering equipment and pumping machinery during 53-54, we have to place orders with firms for them immediately since it will take a year or even more to get them from abroad.

further extension is possible. It is not possible to locate any more filters inside. Further the existing coagulation tank has already been over loaded and it can not take any further load. As such the construction of new filters is an absolute necessity.

"Copy"

N. Neelakantappa 10/4

(N. NEELAKANTAPPA),
Chief Engineer of Mysore.

Lett r N .1440 dated 22.2.52 from the Executive Engineer, Water Supply Division, to the Chief Engineer of Works, Kan al re.

Re:Estimate for developing the G.W.S.Scheme at T. G. Halli to 10 M. G. D.

I write to state that an estimate amounting to ..9.lakhs for the above is work is pending sanction before Government. The Hon'ble Minister for P.W.D. during his recent visit to T.G.Halli and Hessar katta instructed that the project may be split up into convenient portions so as to facilitate execution in stages during 52 - 53, 54-55 & 55-56. Accordingly this report has been submitted.

There are 30 Sub estimates in the entire scheme. Out of these the following items costing .11.2 are proposed to be taken up during 1952 - 53 in the order of priority.

Sl.No.	Item No.	Name of the Work.	Amount of Estimate.
1	4	Constructing floculators & clarifiers	3.385 lakhs
2	5	" Filter house and Wash Water Tank	3.478 "
3	6	" Filter Shell...	0.90 "
4	8	" Pure Water Tank	2.203 "
			9.966 "
5	6	Establishment. @ 5%	9.85 "
6	8	Tools and Plant...(1.4%)	00.47 "
		Total:	11.29 "

During 1953 - 54 - the following works will be taken.

1	7	Providing filter Equipment...	3.30 lakhs
2	9	Extending pump house	3.30 "
3	10	Installing additional pumps	3.50 "
4	11	Recovery of leakage water from the waste weir Valley	3.40 "
5	16	Establishment @ 2%	0.42 "
6	18	Tools and Plant (0.7%).	0.24 "
			12.84 "

During 54-55: The following works will be taken up and the project completed.

1	6	Raising the main dam including wall and the Main Tower	2.450 lakhs
2	9	" the Waste Weir body wall	0.82 "

Sri N. NEELAKANTAPPA, B.A., B.E.,
Engineer of Mysore.

P. W. SECRETARIAT.
1569
Date 22/5/52

TELEGRAPH-CEMYS.
TELEPHONE—
OFFICE : 3290
RESIDENCE : 2449

PUBLIC WORKS DEPARTMENT,
CENTRAL OFFICE,
"PUBLIC WORKS DEPTT. OFFICES,"

Bangalore, Dated.....19-5-.....*1952*.

78-0
I & C.

Dear Sri Gangadhara,

"Regarding improving Chamarajasagara Water Works to Supply 16 MGD to Bangalore - Urgent works".

In continuation of this office letter No.199-200 dated 11th April 1952 regarding the above, I write to state that the situation of supplying water in Bangalore has become precariou At present 12.1 MGD of water is being pumped in both Chamaraja sagara Old (1.3) and New (10.8). With the ever increasing population of Bangalore City which stands now at about 8 lakhs the meagre supply of 12.1 MGD is not at all enough and water is being supplied intermittently. Whatever may be disadvanta in intermittent water supply scheme, this has to be necessaril adopted for want of greater pumpage from Chamarajasagara Old and New. It is practically impossible to pump more water fro Chamarajasagara Old which has reached the maximum limit of 1.3 MGD. The only course opened is to pump more water from - Chamarajasagara New. As has already been reported the supply is inadequate and the bottlenecks are (1) installing floculato and clarifiers (2) to instal additional filters and constnuct pure water tank (3) construction of pump houses and installing suitable pumps (2000 H.P.).

The maximum present capacity of filters is 10 MGD. agai which 10.8 Millions is being filtered resulting in an overload of 10% of installed capacity. All the filters are being work all the 24 hours and at times they are being overworked. Unless additional filters are installed at a cost of Rs.3.08 lakh and the increase the filtering capacity of the filters to abou 16 MGD it may not be possible to pump any more water. The Fir who supplies the filters may take about a year or so to design

1569 PLR

to design and manufacture and supply the filters after ceipt of confirmatory orders and supply of raw materials. milarly as these are of special capacity and special make, e manufacturers have to specially design and manufacture em after receipt of orders. They may take two years to mply with our request. In addition to the time taken by e manufacturers some time will be required to go through e usual formalities in referring the matter to Stores rchase Committee and call for quotations etc.,

Necessary Civil Engineering works in Thippagondanahalli ve to be started immediately.

It is also necessary that immediate orders with the rms have to be placed for the supply of pumps at an approxite cost of Rs. ~~3.30~~ 3.35 Lakhs and to place orders with the manucturers for the manufacture of filters at a cost of ~~3.08~~ 1.50 Lakhs. These are included in the estimate submitted r sanction in this Office No.915/S dated 11th December 1949 ounting to Rs.39.00 Lakhs. Due to the recent increase in ices of labour and raw materials this estimate requires vision and may go up to Rs.49.00 Lakhs. Pending settlement rates to be paid for the water ~~supply~~ consumed by Corporaon, I request you to kindly bring all the facts to the tice of Government and obtain orders for placing orders th the manufacturers for the supply of filters and floculators d pumps at a total cost of Rs.4,85,000/- as per list enclosed, it is feared they may take at least three years to supply em from the date of order.

If orders are not placed immediately with the manufacrers, I am afraid Bangalore City water Supply scheme will be a precarious condition in the next summer.

Yours sincerely,

N. Narasimhaiah 18/5/5

To

K.S.Gangadhara, B.E.,
cretary to Government,
blic Works Department
angalore.

List of articles that have to be obtained from abroad in connection with the improvement works at Thippagondanahalli.

1.	5 Units of influent & effluent controllers 20,000 x 5	- Rs.	1,00,000
2.	Providing valves of required specifications 10,000 x 5	-	50,000
3.	2 Pumps of 2000 H.P. each	-	3,00,000
4.	2 pumps of 150 H.P. each (6 m.g.d. against 60' head for wash Water).	-	35,000
			Rs.4,85,000

These figures are very approximate. Definite amount can be known after quotations are called for through the S.P.C.

(copy)

N. Mulaca & Co
Chief Engineer
18/

1569 PW

SUBJECT Development of Chamaraj Sagar

Section

File No.

Serial No.

No. PW2804 / 27/8/82

To The Chief Engineer (Projects)
The Commissioner
Corporation of City of
Bangalore

Sir,

I am desired to state that at a conference held on 5.9.1946 at Bangalore when the Minister for PW, the president of the Bangalore City Municipal and the Chairman of the Bangalore City Improvement Trust Board were present, the Question of adequacy of the water supply system of Bangalore in the light of the future expansion of the city and growth of the population was considered and it was decided that the Chamaraj Sagar Dam might be raised by 10 feet so as to enhance the supply of water from 12 to 15 M.G.D. The Director

as suggested by the Chief Engr
costs Rs 39.0 lakhs for raising
the dam by 10 feet providing
additional filters, pumps,
construction of a four more
tank and a storage reservoir.
Taking the capital invested so far
and that for the improvements
now contemplated the ~~net~~
revenue accruing from the
water supply ~~is not enough~~ to cover even
~~maintenance charges~~ depreciation and interest charges.
~~Hardly~~ It is ~~found~~ ~~only~~
negligible. It is therefore necessary
to enhance the rate for supply
of water to the corporation
to Re 0-12-00 ~~per 1000 gallons~~.
~~Re 0-10-0 in All India basis~~

2. The Mayor, Corporation
of Bangalore, was addressed
in this office letter No P.W. 2440
dated 20.6.1950 ~~requesting~~
~~him~~ to intimate the willingness
of the corporation to pay the
increased rate which is necessary
to take up the work. No reply
has been received from ~~the~~ him till now
though reminders were issued to him.

CORPORATION OF THE CITY OF BANGALORE.

P.W. SECRETARIAT. No. 6786 Date 27/8/52

No.A-5-Pr.14/52-53
Enc: one resolution.

CORPORATION OFFICES,
BANGALORE.

Dated 25th August 1952

FROM

B. M. ABU BAKER, ESQ., M.A. (Hons.),
COMMISSIONER,
CORPORATION OF THE CITY OF BANGALORE,
BANGALORE.

SECRETARIAT TO GOVERNMENT Date 27/8/52 PUBLIC WORKS & FIRE DEPTS. BANGALORE.

To

The Secretary to the Government of Mysore,
Public Works Department;
Bangalore.

SIR,

Sub: SCHEME FOR THE DEVELOPMENT OF CHAMARAJBAGAR, PUMPING STATION AT A COST OF Rs.39/- LAKHS.

With reference to your letter No.PW.8786-87 dated 23 January 1952 on the above subject, I write to state that th Corporation at their meeting held on 28th July 1952 have resolved that the work of Developing ChamarajaSagar Pumpin Station at the proposed cost of 39 Lakhs may be recommend to be taken up and that the rate of supply may be considered separately. I therefore request you kindly to arrang to take up the improvements of Chamaraja Sagar pumping Station at the cost of Government early. A copy of the said resolution is herewith enclosed for favour of referen

RESOLUTION PASSED AT THE ADJOURNED MEETING OF THE CORPORATION OF THE CITY OF BANGALORE, HELD ON 28TH JULY 1952.

The Mayor suggested that subjects No. 74 and 82 were allied subjects and might be taken up together.

The House agreed to the suggestion.

74. Recommendation of the Standing Committee (Taxation and Finance dated 1st May 1952, approving the office note dated 25th April 1952, for developing the installation of the Chamaraja Sagar Pumping Station and that the Government be pressed to taken up the improvements and that the rate of supply be considered separately.

82. Recommendation of the Standing Committee (Taxation and Finance) dated 15th May 1952, that the work of distribution of water be taken over by the Corporation from the Government Water Supply Department and maintained at the cost of the Corporation and also constitute a Committee as proposed by the Commissioner to go into the matter with the modification that Sri.C.N.Shama Rao be appointed in place of Sri. J. Appaji Gowda on the Committee.

Sri. C. Rajagopalachar moved the following resolution:-

"Resolved:-

(1) That the recommendation of the Standing Committee (Taxation and Finance) dated 1st May 1952, approving the office note dated 25th April 1952, for developing the installation of the Chamaraja Sagar Pumping Station and that the Government be pressed to take up the improvements and that the rate of supply be considered separately, be accepted.

(2) That the Recommendation of the Standing Committee (Taxation and Finance) dated 15th May 1952, that the work of distribution of water be taken over by the Corporation from the Government Water Supply Department and maintained at the cost of the Corporation and also constitute a Committee as proposed by the Commissioner to go into the matter with the modification that Sri. C.N.Shama Rao be appointed in place of Sri. J. Appaji Gowda on the Committee, be approved.".

Sri. A.V.A. Ram seconded the resolution and it was passed.

Sd/- B.V.Lankappa,

MAYOR.

" C O P Y ",

N. Siddalingappa

(N.SIDDALINGAPPA),
FOR COMMISSIONER,
CORPORATION OF BANGALORE.

GENERAL & REVENUE SECRETARIAT
5176
13 OCT 1952

CORPORATION OF THE CITY OF BANGALORE.

P.W. SECRETARIAT.
No. S-715
Date 23/9/52

No.A5.Pr.14/52-53. Encls 4

CORPORATION OFFICES,
BANGALORE.

Dated 13th September 1952.

FROM

B. M. ABU BAKER, ESQ., M.A. (Hons.),
COMMISSIONER,
CORPORATION OF THE CITY OF BANGALORE,
BANGALORE.

To

The Secretary to the Government of Mysore.,
Public Works Department,
BANGALORE.

SIR,

SUBJECT:- SCHEME FOR THE DEVELOPMENT OF CHAMARAJASAGAR PUMPING STATION AT A COST OF Rs.39/-LAKHS.

With reference to your letter No.P.W.2804/dated 27th August 1952 on the above subject, I enclose herewith for favour of information a copy of my letter of even number dated 1st September 1952 addressed to the Secretary, L.S.G. Department, together with a copy of the office note dat 25th April 1952 and the resolution thereon, requesting to obtain sanction to the resolution of the Corporation 28th July 1952 for forming a committee referred to in t office note. The Committee has to consider the various aspects regarding enhancement of the rate of charge for supply of filtered water to the Corporation.

The project estimate for Rs.39/- Lakhs is being scrutinised by the Corporation Engineer and it will be returned to you duly countersigned at an early date.

ubd for perusal. The L.S.G may be requested to note the action taken on solution of the corporation

Yours faithfully,

(B.M.ABU BAKER),
COMMISSIONER.

VKR.
13/9/-.

Asst Secy Abl (BV) 13.9.52

The f/c has been communicated to the Chief Engineer for their remarks regarding the proposed

10/11

5176/mb,

for of Cooperation over the distribution of water. The Corporation on 27.8.82 sent the Petition & the file of connected with the above reference to this file may be Petition sent to Engg. P.W. Secretariat

16/10/82 Asst Secy P.W.D) 16/10

The Mayor suggested that subjects No.74 and 82 were allied subjects and might be taken up together.

The House agreed to the suggestion.

74. Recommendation of the Standing Committee (Taxation and Finance) dated 1st May 1952, approving the office note dated 25th April 1952, for developing the installation of the Chamaraja Sagar Pumping Station and that the Government be pressed to take up the improvements and that the rate of supply be considered separately.

82. Recommendation of the Standing Committee (Taxation and Finance) dated 15th May 1952, that the work of distribution of wa be taken over by the Corporation from the Government Water Suppl Department and maintained at the cost of the Corporation and alsc constitute a Committee as proposed by the Commissioner to go into matter with the modification that Sri.C.N.Shama Rao be appointed in place of Sri. J. Appaji Gowda on the Committee.

Sri. C. Rjagopalachar moved the following resolution:-

"RESOLVED:-

(1) That the recommendation of the Standing Committee(Taxation and Finance) dated 1st May 1952, approving the office note dated 25th April 1952, for developing the installation of the Chamaraja Sagar Pumping Station and that the Government be pressed to take up the improvements and that the rate of supply be considered seprately, be accepted.

(2) That the recommendation of the Standing Committee(Taxatic and Finance) dated 15th May 1952, that the work of distribution c water be taken over by the Corporation from the Government Water Supply Department and maintained at the cost of the Corporation and also constitute a Committee as proposed by the Commissioner to go into the matter with the modification that Sri. C.N.Shama Rao be appointed in place of Sri. J. Appaji Gowda on tl Committee, be approved.".

Sri. A.V.K.Ram seconded the resolution and it was passed.

Sd/- B.V. Lankappa,

MAYOR,
Corporation of Bangalore.

" C O P Y ",

FOR COMMISSIONER,
CORPORATION OF BANGALORE.

Copy of letter No.A15/P.R.14/52-53 dated 1st September 1952, from the Commissioner, Corporation of the City of Bangalore, Bangalore, to the Secretary to the Government of Department, L.S.G.Department, Bangalore.

SUBJECT:- SCHEME FOR THE DEVELOPMENT OF CHAMARAJASAGAR PUMPING STATION AT A COST OF 39/-LAKHS.

I enclose a copy of my letter of even No. dated the 25th August 1952 addressed to the Secretary, P.W.D. and a copy of the resolution together with a copy of the office note dated 25th April 1952 referred to in the resolution. It consists of two parts (1) requesting the Government to take up the improvements scheme and (2) consideration of the rate of charge for the supply of filtered water to the Corporation. Regarding item No.1 action has already been taken and with regard to No.(2) the question has to be considered under several aspects by the Committee consisting of the marginally noted members. *

*1. The Chief Engineer.
2. The Chief Electrical Engineer.
3. The Executive Engineer (Water Supply)
4. The Deputy Auditor General.
5. The Mayor.
6. The Commissioner.
7. The Corporation Engineer.
8. One expert/representative of the Corporation.

2. I request that the Government may be pleased to approve the resolution of the Corporation and forward their sanction at a very early date to enable me to take further action in the matter.

------ o -----

" C O P Y ",

N. Sivaram

for COMMISSIONER,
CORPORATION OF BANGALORE.

SUBJECT:- NOTE REGARDING THE PROPOSALS OF THE EXECUTIVE ENGIN
RECEIVED THROUGH THE CHIEF ENGINEER AND GOVERNMENT FOR TAK
THE CONCURRENCE OF THE CORPORATION FOR DEVELOPING THE
INSTALLATION OF THE CHAMARAJA SAGAR PUMPING STATION AT A C
OF 39 LAKHS AND FOR THE PAYMENT OF THE EXCESS WATER CHARGE
AT 10 OR 12 ANNAS PER 1000 GALLONS AFTER THE DEVELOPMENT I
ACCOMPLISHED.

According to the terms mentioned in the G.O.No.L.1129-31
ML.260-32-13, dated 9-8-1933, water is being supplied to the
are by Government. The Corporation will have to make an annua
payment of 4 lakhs of rupees to Government towards water
charges subject to a free allowance of 3 million gallons. I
addition to this, the charges for the excess water consumed
over and above 3 million gallons for water at the rate of
Rs. 0-4-3 per 1000 gallons will have to be paid to the Water
Supply Department. The Corporation has also to bear a cos
of Rs.28,004/- per annum being cost of establishment for
collection.

In Civil Station, Water is supplied by the Government
according to the agreement entered into by the erstwhile Civi
Station Municipal Commission with the Government in 1938. Th
agreement provides for supply of water subject to a maximum
2½ millions of gallons per day, with no free allowance, at th
graded rates of charges ranging from 7.66 annas to 7.38 anna
per 1000 gallons. The rates payable over and above the speci
quantity of 2½ million gallons per day will have to be decid
by a Committee consisting of the members from the Government
service and the Corporation. The Corporation has its own
establishment to distribute the water in the Civil Station a

The financial implication both from the City and Civil
Station areas according to the Budget figures of 1951-52(whi
is more or less the same during 1952-53 also) is as follows

for developing Chamaraja Sagara Pumping Station in the circumstances stated by the Assistant Engineer, Water Suppl Sub Division No.1 in his letter No.1960 dated 1-11-1951 (vide Flag 'A'), and also in the letter No.1008 dated 19-11 (Vide Flag 'B') from the Executive Engineer, Water Supply Chief Engineer, and the consent of the Corporation for enhancing the rate for excess water supplied from 7.3 to 10 or 12 annas.

According to the letters, the present supply of water for both City and Civil Station comes to 11.410 million gallons on the average per day. The pumping capacity of the 5 pumps at Chamaraja Sagar Water Works and Soladevenahalli comes to 12.1 million gallons per day.

In view of the fact that the Bangalore City is fast growing and the population is increasing day by day, with t existing plant at the Water Works, it is not possible to su even the bare necessary quantity of water in the immediate future. The Executive Engineer, Water Supply Division ther proposes to develope the Chamaraja Sagar Pumping Station at cost of Rs.39/ Lakhs. The rough estimate of the works for th development of the pumps etc., is noted in the enclosures t letter No.2634 dated 20-2-1952 (Vide Flag 'C') sent by the Executive Engineer, Water Supply Department. It is stated t if this development work is carried out, the pumping capaci may be raised from 15 to 16 million gallons a day to meet t supply adequately in the present situation of the City.

Incidently, he stated that the enormous leakage on account the wastage of power and the consequent loss of revenue estimated at a lakh of ruppes per year, due to old and worn out existing machinery etc., will be avoided, if the develo scheme is accomplished.

Before taking up the work, he wants to take the conse of the Corporation, for enhancing the rate from 7.3 annas t or 12 annas per 1000 gallons of excess water consumed on

supply. He has not given the basis on which he has arrived at this rate of 10 or 12 annas.)

According to the present rates prevailing in the City and Civil Station, the total cost of water would be -

1. City area ..... Rs. 9,78,890
2. Civil Station area ..... Rs. 6,00,000

Total. Rs. 15,78,890.

According to the proposed uniform rate of 10 annas per 1000 gallons the cost will come to Rs.

1. City area ..... Rs. 14,82,813
2. Civil Station area ..... Rs. 7,80,000

Total Rs. 22,62,813.

The increase in the cost, if the proposed rate of 10 annas is given after developing the scheme comes to Rs. 6,83,92

The income from water supply both in City and Civil Statio s Rs. 15,04,000/- and the estimated expenditure after the devel ment work is complete comes to Rs. 22,62,813/- per year exclusive of the establishment charges. The excess expenditur comes to Rs. 7,58,813/-.

The Corporation Engineer suggests that, to meet this excess expenditure, the existing rates may be raised by 50% (water taxes, excess water charges, and the charges for the Military consumption.). He also suggests that a uniform rate of supply and distribution both for City and Civil Station n be adopted. The question of raising the rate of water tax, excess charges will have to be settled after the rate to be given to Government is definitely settled and increased cost to the Corporation is arrived at.

It is clear from the above said reports of the Assistant Engineer and Executive Engineer, Water Supply Division that there is immediate need for developing the Chamaraja Sagar Pumping Station in the circumstances stated by them. Only the question of payment of the rates for excess water supplied over and above the free allowances will have to be settled.

The Executive Engineer, Water Supply Division has not furnished any basis for having arrived at the rate of annas 10 per thousand gallon of excess water supplied. It is necessary to know the basis on which he has fixed the rate and also to arrive at a reasonable rate of not exceeding 3 to 3½ assured income on the Capital cost. Several factors have to be considered before the capital cost is determined including the question of reducing the rate of power charge and fixed at least at the rate given to several mills in the City area.....

It is therefore proposed that a Committee consisting

1. The Chief Engineer.
2. The Executive Engineer, Water Supply Division.
3. The Chief Electrical Engineer.
4. The Deputy Auditor General.
5. The Mayor.
6. The Commissioner.
7. The Corporation Engineer.
8. One expert representative of the Corporation, be formed to go into the question of fixing the rate, on the basis of capital cost etc., and the terms, if any in connection with the supply of water to the Corporation. The Chief Engineer be the Chairman of the Committee and the Corporation Engineer and Executive Engineer, Water Supply Division may be the joint Secretaries of the Committee.

Government in their letter No.P.W.8786-87 stated that the Corporation may give their concurrence to take up the work of developing Chamaraja Sagar Pumping Station at the proposed cost of 39 lakhs pending settlement of the rate.

As desired by the Government in view of the urgency, the Development work may be taken immediate, as the Corporation will not bear any portion of the cost in this behalf, and the question of determining the rate, referred to the Committee proposed as above.

CORPORATION OF THE CITY OF BANGALORE.

5.Dr.14/52_53
Enc. one Project Estimate

P.W. SECRETARIAT. Date 23/10/52

CORPORATION OFFICES,
BANGALORE.

No. 6708 Dated 16th October 1952

FROM

THE COMMISSIONER,
CORPORATION OF ~~BANGALORE~~,
BANGALORE.

SECRETARY TO GOVERNMENT PUBLIC WORKS DEPTT. Date 18/10

TO

The Secretary to the Government of Mysore,
Public Works Department,
Bangalore.

18-10-52

SIR,

Subject: SCHEME FOR THE DEVELOPMENT OF CHAMARAJSAGAR PUMPING STATION AT A COST OF Rs.39 LAKHS.

In continuation of this office letter of even number dated 13-9-1952 on the above subject, I enclose herewith the project estimate duly countersigned for Rs.39 lakhs. The same may kindly be acknowledged.

Yours faithfully,

K. Henjerappa 16/10

(K. Henjerappa)
COMMISSIONER.

G. R. S. App. F. G. 3.]

GENERAL AND REVENUE SECRETARIAT.

Continuation sheet draft form.

6708
P CO

pw 7929
7/12/52

To

The commissioner
corporation of the
city of Bangalore

Subject:- Development of Chamarajapet to its full capacity of 15 to 16 M.G.D.

Sir,

With reference to your letter no ~~AE Corp~~ AS PR 14/52-53 dated 16.10.1952, returning the estimate of Rs 39.0 lakhs duly countersigned, I am directed to state ~~that the corporation has not intimated its willingness to pay the enhanced rate and it~~ is necessary that the Corporation should agree to the enhanced

it has not clearly been indicated that the Corporation has accepted to pay the enhanced rate for water supply.

1/12

WD 06072—GPB—25,000—21-6-49

rate of Rs 0-10-0 per
1000 gallons before
the estimate is sanctioned
and the work taken up
I am therefore to request you kindly to Convince
yours faithfully the Resolution of
the Corporation
to pay the
enhanced rate
to enable further
action being
taken in respect
of the estimate

1/12 Exd.B

24/11/02

GOVERNMENT OF MYSORE.

No. PW 7929.

General and Revenue Secretariat,

Dated, Bangalore, 2/12/

FROM

The *Secretary to the Government of Mysore,*
Public Works Department,
Bangalore.

To

The Commissioner,
Corporation of the City of Bangalore,
Bangalore.

Development of Chamaraj Sagar to the full capacity of 15 to 16 Million Gallons.

Sir,

With reference to your letter No.A5 P.R.14/52-53 dated 16 October 1952, returning the estimate of Rs.39.0 lakhs duly countersigned, I am directed to state it has not been clearly indicated that the Corporation has accepted to pay the enhanced rate for water supply. It is necessary that the Corporation should agree to the enhanced rate of Re.0-10-0 per 1000 gallons before the estimate is sanctioned and the work taken up. I am therefore to request you kindly to communicate the Resolution of the Corporation to pay the enhanced rate to enable further action being taken in respect of the estimate.

Yours faithfully,

o.c

(H.Channiah)
For Secretary to Govern....,
Public Works Department.

ej

CORPORATION OF THE CITY OF BANGALORE

P.W. SECRETARIAT.
No. GS 61
Date 19/12/52

No. A5.Pr.14/52-53

CORPORATION OFFICES,
BANGALORE.

Dated 15th December 1952.

FROM

K. HENJERAPPA, ESQ., B.A., B.L.,
COMMISSIONER,
CORPORATION OF THE CITY OF BANGALORE,
BANGALORE.

SECRETARY TO GOVERNMENT
PUBLIC WORKS & ELE

To

The Secretary to the Government of Mysore,
Public Works Department,
Bangalore.

SIR,

SUBJECT: Development of Chamaraj Sagar to the full capacity of 15 to 16 Million gallons.

***

With reference to your letter No.P.W.7929 dated 2- on the above subject, I write to invite your kind reference letter of even number dated 15-9-52 enclosing a copy of the resolution of the Corporation dated 28-7-1952 for forming a committee to consider the various aspects chiefly enhancemer the rate of charge for the supply of filtered water to the Corporation. The Secretary to Government, Local Self Gover Department has been requested to obtain and communicate sanc of Government to the said resolution of the Corporation. After the required sanction is obtained the proceedings of t Committee (to be formed) will be placed before the Corporati and their resolution intimated to Government in due course.

The Md Bn may be requested to intimate the action taken on the resolution of the Corporation re. the formation of a committee

Yours faithfully,

(K. Henjerappa,)
COMMISSIONER

TNL/-

CORPORATION OF THE CITY OF BANGALORE

P.W. SECRETARIAT.
No. 1438
Date 16/5/53

No. A5.Tr.14/53-54
Enc. Nil.

CORPORATION OFFICES,
BANGALORE.
Dated 12th May 1953

SECRETARY TO GOVERNMENT
Date
BANGALORE
PUBLIC WORKS & ELECTRICITY

FROM

K. HENJERAPPA, ESQ., B.A., B.L.,
COMMISSIONER,
CORPORATION OF THE CITY OF BANGALORE.

To

The Secretary to the Government of Mysore,
Public Works Department,
Bangalore.

SIR,

SUBJECT: Scheme for the improvement of water supp
the Bangalore City Corporation.
Water Sub-committee appointed as per Gov
order No.L.21667-76/C.L.91-52-4 dated 14
March 1953 and No.L.1189-1201/C.M.86-53-
dated 29-4-1953.

I write to state that the Water sub-committee cor
as per Government order quoted above met for the first time
the 7th May 1953 and recommended as follows:-

"This Committee recommends to the Corporation to assure the Government that it will receive its future su of water at rates to be finally determined by the Corpor after considering the report of the Committee in this be In view of the fact that it takes a long time to get the necessary machinery to meet the immediate needs of Banga it recommends that the Government may be pleased to take immediate steps for sanctioning the estimates and the or of necessary pumps, filters and other equipments so that a substantial daily increase in the receipt of water at Bangalore may be obtained as early as possible."

Since it is ascertained that it may take some time to get th machinery etc. and instal the same at Thippagondanahalli, th Corporation desires to request the Governmentm to take the v of sanctioning the estimates and getting the necessary machin and other equipments for installing at the works, ~~without~~ wi